

BULLETIN OF VALPARAISO UNIVERSITY

ANNOUNCEMENT OF COURSES
1937-1938



COLLEGE OF LIBERAL ARTS
(Founded 1859)

COLLEGE OF ENGINEERING
(Founded 1917)

COLLEGE OF PHARMACY
(Founded 1892)

SCHOOL OF LAW
(Founded 1879)



CATALOG
1936-1937

Valparaiso, Ind.

BULLETIN OF Valparaiso University

VOLUME XI

MAY 1, 1937

NUMBER 1

Announcement of Courses - 1937-1938

CATALOG
FOR THE
SEVENTY-FOURTH ACADEMIC YEAR
1936-1937



Published Weekly by the Valparaiso University Association

Entered as second-class matter at the Post Office at
Valparaiso, Indiana, under the Act of August 24, 1912

1937

JANUARY

S	M	T	W	T	F	S
..	..	..	..	..	..	1 2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
31						

FEBRUARY

S	M	T	W	T	F	S
..	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	..
28						..
						..

MARCH

S	M	T	W	T	F	S
..	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31			..
						..

APRIL

S	M	T	W	T	F	S
..	..	..	..	..	..	1 2 3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	..
						..

MAY

S	M	T	W	T	F	S
..	..	..	..	..	..	1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31					

JUNE

S	M	T	W	T	F	S
..	1	2	3	4	5	..
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30			..
						..

JULY

S	M	T	W	T	F	S
..	..	..	..	..	1 2 3	..
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31

AUGUST

S	M	T	W	T	F	S
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				..
						..

SEPTEMBER

S	M	T	W	T	F	S
..	..	..	..	..	..	1 2 3 4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30		..
						..

OCTOBER

S	M	T	W	T	F	S
..	..	..	..	..	..	1 2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
31						

NOVEMBER

S	M	T	W	T	F	S
..	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30				..
						..

DECEMBER

S	M	T	W	T	F	S
..	..	..	..	..	..	1 2 3 4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	..
						..

JANUARY							FEBRUARY							MARCH							APRIL						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
						1			1	2	3	4	5			1	2	3	4	5						1	2
2	3	4	5	6	7	8	6	7	8	9	10	11	12	6	7	8	9	10	11	12	3	4	5	6	7	8	9
9	10	11	12	13	14	15	13	14	15	16	17	18	19	13	14	15	16	17	18	19	10	11	12	13	14	15	16
16	17	18	19	20	21	22	20	21	22	23	24	25	26	20	21	22	23	24	25	26	17	18	19	20	21	22	23
23	24	25	26	27	28	29	27	28						27	28	29	30	31			24	25	26	27	28	29	30
30	31																										
MAY							JUNE							JULY							AUGUST						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
1	2	3	4	5	6	7	5			1	2	3	4	3	4	5	6	7	8	9	1	2	3	4	5	6	7
8	9	10	11	12	13	14	6	7	8	9	10	11	12	10	11	12	13	14	15	16	7	8	9	10	11	12	13
15	16	17	18	19	20	21	12	13	14	15	16	17	18	17	18	19	20	21	22	23	14	15	16	17	18	19	20
22	23	24	25	26	27	28	19	20	21	22	23	24	25	24	25	26	27	28	29	30	21	22	23	24	25	26	27
29	30	31					26	27	28	29	30			24	25	26	27	28	29	30	28	29	30	31			
														31													
SEPTEMBER							OCTOBER							NOVEMBER							DECEMBER						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
						1	2	3	4	5	6	7	8	1	2	3	4	5	6	7	4	5	6	7	8	9	10
9	10	11	12	13	14	15	9	10	11	12	13	14	15	13	14	15	16	17	18	19	11	12	13	14	15	16	17
16	17	18	19	20	21	22	16	17	18	19	20	21	22	20	21	22	23	24	25	26	18	19	20	21	22	23	24
23	24	25	26	27	28	29	23	24	25	26	27	28	29	27	28	29	30				25</						

University Calendar

College Year of 1937-1938

1937

First Summer Term

June 14, Monday. Registration.

June 15, Tuesday. Classes begin.

July 16, 17, Friday, Saturday. Final Examinations.

Second Summer Term

July 19, Monday. Registration.

July 20, Tuesday. Classes begin.

August 20, 21, Friday, Saturday. Final Examinations.

First Semester

September 10, Friday, 4:00 P. M. Meeting of the Faculty.

September 13-15, Monday-Wednesday. Freshman Days.

September 15, Wednesday. Registration of Upperclassmen.

September 16, Thursday, 8:00 A. M. Instruction begins.

September 25, Saturday, 12:00 Noon. Registration for the first semester closes.

October 27, Wednesday. Honor Convocation.

October 30, Saturday. Homecoming.

November 18, Thursday, 5:00 P. M. Mid-semester reports due.

November 24, Wednesday, 5:00 P. M. Thanksgiving recess begins.

November 29, Monday, 8:00 A. M. Instruction resumed.

December 18, Saturday, 12:00 Noon. Christmas recess begins.

1938

January 3, Monday, 8:00 A. M. Instruction resumed.

January 22, Saturday, 8:00 A. M. First semester final examinations begin.

January 29, Saturday, 12:00 Noon. First semester final examinations end.

Second Semester

January 31, Monday, 8:00 A. M. Registration for all students.

February 1, Tuesday, 8:00 A. M. Instruction begins.

February 12, Saturday, 12:00 Noon. Registration for second semester closes.

April 5, Tuesday, 5:00 P. M. Mid-semester reports due.

April 12, Tuesday, 5:00 P. M. Easter recess begins.

April 20, Wednesday, 8:00 A. M. Instruction resumed.

May 28, Saturday, 8:00 A. M. Second semester final examinations begin.

June 4, Saturday, 12:00 Noon. Second semester final examinations end.

June 5, Sunday, 10:30 A. M. Baccalaureate Service.

June 5, Sunday, 3:00 P. M. Sixty-fourth Annual Commencement.

Recognition by Accrediting Agencies

Valparaiso University holds membership in the following accrediting associations:

The North Central Association of Colleges and Secondary Schools.

The Association of American Law Schools.

The American Association of Colleges of Pharmacy.

Valparaiso University is approved by:

The Indiana State Board of Education as a class "A" college and university for teacher training.

The American Bar Association.

The Board of Regents of the University of the State of New York (The College of Liberal Arts).

The Committee on Admissions from Higher Institutions of the University of Illinois as class "A" in all departments of the College of Liberal Arts.

The Council on Medical Education and Hospitals of the American Medical Association for Pre-Medical Education.

PART I

ORGANIZATION, ADMINISTRATION,
INSTRUCTIONAL STAFF

*Board of Directors

WILLIAM C. DICKMEYER, President
WILLIAM F. BOEGER, Vice-President
REV. PAUL F. MILLER, LL.D., Secretary
JOHN A. SAUERMAN, Treasurer

Term to Expire 1937

HENRY A. DAHLEN-----	South Orange, New Jersey
REV. O. A. GEISEMAN, M.A.-----	Oak Park, Illinois
PROF. WALTER A. MAIER, Ph.D.-----	Saint Louis, Missouri
REV. LOUIS NUECHTERLEIN-----	Saint Joseph, Michigan
FRED WEHRENBURG-----	Fort Wayne, Indiana
JOHN A. SAUERMAN-----	Chicago, Illinois

Term to Expire 1938

WILLIAM F. BOEGER-----	Chicago, Illinois
HARRY A. EBERLINE-----	Detroit, Michigan
HENRY A. ULBRICH, M.D.-----	Detroit, Michigan
PAUL KLITZKE-----	Hammond, Indiana
REV. LOUIS J. SIECK-----	Saint Louis, Missouri
CHAS. J. STAERKER-----	Cleveland, Ohio

Term to Expire 1939

REV. G. CHRISTIAN BARTH-----	Cincinnati, Ohio
WILLIAM C. DICKMEYER-----	Fort Wayne, Indiana
ERNEST J. GALLMEYER-----	Fort Wayne, Indiana
REV. PAUL F. MILLER, LL.D.-----	Fort Wayne, Indiana
ROBERT C. MOELLERING-----	Fort Wayne, Indiana
EDWARD W. JAEGER-----	Chicago, Illinois

*1936-1937.

Standing Committees of the Board**

EXECUTIVE COMMITTEE

WILLIAM C. DICKMEYER, (President), Chairman
REV. PAUL F. MILLER, LL.D.
JOHN A. SAUERMAN
FRED WEHRENBURG
PAUL KLITZKE

COMMITTEE ON INSTRUCTION

WILLIAM F. BOEGER, Chairman
REV. O. A. GEISEMAN, M.A.

COMMITTEE ON FINANCE AND INVESTMENT

JOHN A. SAUERMAN, Chairman
PAUL KLITZKE
CHAS. J. STAERKER

COMMITTEE ON BUILDINGS AND GROUNDS

FRED WEHRENBURG, Chairman
ROBERT MOELLERING
PAUL KLITZKE

COMMITTEE ON AUDIT

HARRY A. EBERLINE, Chairman
CHAS. J. STAERKER

COMMITTEE ON BUDGET

WILLIAM C. DICKMEYER, Chairman
JOHN A. SAUERMAN
FRED WEHRENBURG
HARRY A. EBERLINE

COMMITTEE ON PUBLIC RELATIONS

REV. G. CHRISTIAN BARTH, Chairman
JOHN A. SAUERMAN
EDWARD W. JAEGER

**The President of the Board is a member of all standing committees. The President of the University is a member ex-officio of all standing committees.

Administrative Officers and Staff

Office of the President

OSCAR C. KREINHEDER, D.D., President of the University.

*LAURA SAEGER, A.B., Secretary

Office of the Dean of the University

†FREDERICK W. KROENCKE, Ph.D., Dean of the University.

ELSE BRETSCHER, Secretary

Office of the Dean of Students

HENRY H. KUMNICK, A.B., LL.B., Dean of Students.

MARGARET SCHROEDER, Secretary

Office of the Registrar-Business Manager

ALBERT F. SCRIBNER, A.B., Registrar-Business Manager

HERBERT C. GRAEBNER, M.B.A., Accountant

ESTHER KIRCHHOEFER, A.B., Assistant to the Registrar

MYERS ZIMMERMAN, A.B., Buildings and Grounds

MARTHA CARLSON, Clerk

MARIE NORDSIECK, Clerk

Library

KATHERINE ERTZ BOWDEN, B.S. University Librarian.

SELMA KROENCKE MULLIN, A.B., Assistant to the Librarian

Office of the Student Secretary

FREDERICK RECHLIN, M.A., Student Secretary

MARGARET CRISMAN, Stenographer

Director of the Summer Session

WALTER E. BAUER, Ph.D.

Alumni Secretary

CATHARINE CORBOY

University Physician

GERALD H. STONER, M.D.

Residence Halls

GAYNELL NEFF, M.A., Director of Altruria Dormitory for Women

LYDIA MERKER, R.N., Director of Lembke Dormitory for Men

EMMA KRETZMANN, R.N., Assistant to the Director of Altruria Dormitory

*Resigned February 10, 1937.

†Died August 10, 1936.

Lutheran University Association

Department of Public Relations

KARL H. HENRICHs, M.A., Director

ARMIN W. BORN, Membership Secretary

FREDERICK L. MILLER, M.A., Assistant to the Membership Secretary

MILDRED CARLSON, Office Manager

HELEN MARKS, Secretary

MURIEL JONES, A.B., Secretary

ROBERT ALLETT, A.B., Publicity

Office of the Business Manager

ALBERT F. SCRIBNER, A.B., Business Manager

RUTH DARST, A.B., Secretary

Organization of the University

I. The College of Liberal Arts

The Department of Biology
The Department of Business Management and Economics
The Department of Chemistry
The Department of Education and Psychology
The Department of English Language and Literature
The Department of Foreign Languages and Literatures
The Department of Geography and Geology
The Department of Mathematics and Physics
The Department of Music
The Department of Religion and Philosophy
The Department of Social Science

II. The College of Engineering

HOWARD WILSON MOODY, Ph.D., Dean
The Department of Civil Engineering
The Department of Electrical Engineering
The Department of Mechanical Engineering

III. The College of Pharmacy

FREDERICK V. LOFGREN, Ph.D., Dean

IV. The School of Law

JOHN W. MORLAND, A.M., J.D., Dean

Administrative and Faculty Committees*

1936-1937

Admissions and Degrees:

Associate Professor Miller, Chairman; Deans Lofgren, Moody, and Morland; Professor Elliott; Registrar Scribner, Secretary.

Athletics:

Professor Schwiebert, Chairman; Associate Professor Harwood; Mr. Graebner; Dean Moody, Secretary.

Curriculum and Educational Planning:

Associate Professor Miller, Chairman; Associate Professor Bauer; Registrar Scribner; Professor Elliott, Secretary.

Discipline:

Assistant Professor Lindberg, Chairman; Professor Berry; The University Librarian, Katherine Bowden; Dean of Students, Henry Kumnick, ex-officio.

Library:

Associate Professor Bauer, Chairman; Professor Friedrich; Assistant Professor Lindberg; Mr. Umbach; The University Librarian, Katherine Bowden.

Scholarship:

Associate Professor Thrun, Chairman; Associate Professors Meyer and Thomas; Assistant Professor Lauritzen; Registrar Scribner, Secretary.

Student Aid:

President O. C. Kreinheder, Chairman; Director Henrichs; Dean of Students Kumnick; Registrar Scribner, Secretary.

*The President is an ex-officio member of all Administrative and Faculty Committees.

**Officers of Administration
and
Members of the Faculty**

THE REV. OSCAR C. KREINHEDER, D.D.
President of the University

THE REV. WILLIAM H. T. DAU, D.D.
President Emeritus

The following names are arranged alphabetically:

Walter Emil Bauer, Ph.D., *Associate Professor of History.*

Concordia (Junior) College, Fort Wayne (Diploma, 1917); Concordia Theological Seminary (Diploma, 1921). Graduate study at The University of Chicago; Columbia University (A.M., 1922); Harvard University; Cornell University (Ph.D., 1932).

Virgil Edwin Berry, LL.B., *Professor of Law.*

Indiana University (LL.B., 1909).

Howard Theodore Betz, A.B., *Part-time Instructor in Mathematics and Physics.*

Valparaiso University (A.B., 1933); Graduate study at The University of Chicago.

Herman Blickensderfer, B.S. in C.E., *Instructor in Civil Engineering.*

Missouri School of Mines and Metallurgy (B.S. in C.E., 1927); *ibid.*, graduate study.

Katherine Ertz Bowden, B.S., *University Librarian.*

Valparaiso University (B.S., 1897).

Edmund Walter Chaffee, Mus.D., *Part-time Professor of Music.*

Stern's Conservatory, Berlin; piano under Mathews, Liebling, and Sherwood; voice under Root, Burrit, and Gottschalk; organ under Gleason and Middleschulte; composition under Koelling; harmony and counterpoint under Gleason; Valparaiso University (Mus. D., hon., 1920).

Jacob Melius Christiansen, A.B., *Instructor in Health and Director of Intramural and Intercollegiate Athletics.*

St. Olaf College (A.B., 1924); Graduate study at University of Minnesota; State Teachers College, Superior, Wisconsin; University of Michigan; University of Wisconsin.

Grant Crumpacker, LL.B., *Lecturer in Law.*

Valparaiso University (LL.B., 1894).

Paul Allerton Cushman, Sc.D., *Professor of Mechanical Engineering.*

Massachusetts Institute of Technology (S.B., 1911); *ibid.* (S.M., 1927); University of Michigan (Sc.D., 1932).

Frank Roy Elliott, Ph.D., *Professor of Zoology.*

Earlham College (B.S., 1911); *ibid.* (M.A., 1912); Graduate study at The University of Chicago; Ohio State University (Ph.D., 1929).

Charles Harold Frick, M.S. in E.E., *Assistant Professor of Mathematics.*

University of South Carolina, (B.S. in E.E., 1930); Graduate study at Iowa State College, (M.S. in E.E., 1931); University of North Carolina.

Walter George Friedrich, Ph.D., *Professor of English.*

Indiana University (A.B., 1920); Graduate study at Columbia University, (M.A., 1923); John Hopkins University, (Ph.D., 1934).

Earl Laurine Frost, B.M., *Instructor in Music.*

Kansas Wesleyan University; Bethany College, (B.M., 1927); Graduate study at Royal Conservatory, Brussels, Belgium; University of Michigan.

Erwin Elmer Goehring, B.S. in Bus. Adm., *Instructor in Business Management and Economics.*

Southeast Missouri State Teachers College; University of Missouri, (B.S. in Bus. Adm., 1927); Graduate study at University of Chicago.

Herbert C. Graebner, M.B.A., *Accountant.*

Valparaiso University (B.S., 1930); Graduate study at Northwestern University, (M.B.A., 1931).

Stacey LeRoy Green, A.B., *Instructor in Music and Piano.*

Northland College, (A.B., 1922); Piano under Dagmar Walle-Hansen and Howard Wells.

Hazel Tallman Guillaumant, M.A., *Assistant Professor of Romance Languages.*

Montana State College, (B.S., 1925); Graduate study at State University of Iowa, (M.A., 1929); National University of Mexico; La Sorbonne, Paris, (Degre Superieur, 1934).

Adolph Theodore Esaias Haentzschel, Ph.D., *Professor of Philosophy.*

Concordia (Junior) College, St. Paul; Concordia (Junior) College, Milwaukee, (Diploma, 1899); Concordia Theological Seminary, (Diploma, 1903); Graduate study at University of Wisconsin, (M.A., 1923); *ibid.*, (Ph.D., 1928).

Arthur Albert Harwood, Ph.D., *Associate Professor of Pharmaceutical Chemistry.*

University of Wisconsin, (B.S., 1923); *ibid.*, (M.S., 1926); *ibid.*, (Ph.D., 1929).

Marshall John Jox, J.D., *Instructor in Law.*

Y. M. C. A. College, Chicago; Indiana University, (A.B., 1928); Graduate study at The University of Chicago, (J.D., 1931).

Roy B. Julian, M.S., *Part-time Instructor in Education and Assistant Director of Supervised Teaching.*

Indiana State Teachers College, (Diploma, 1917); Butler University, (A.B., 1923); Graduate study at Indiana University, (M.S., 1930); University of Chicago.

Fred Henry Kaufmann, Ph.D., *Assistant Professor of Botany and Pharmacognosy.*

University of Wisconsin, (B.S., 1925); Graduate study at Michigan State College, (M.S., 1926); University of Wisconsin, (Ph.D., 1933).

Henry H. Kumnick, A.B., LL.B., *Instructor in Religion.*

Concordia (Junior) College, Milwaukee, (Diploma, 1911); Concordia Theological Seminary, (Diploma, 1914); State University of Montana, (A.B., 1922); *ibid.*, (LL.B., 1924); Graduate study at The University of Chicago.

Louis Erskine Lambert, M.A., *Instructor in English.*

Albia Junior College; The State University of Iowa, (A.B., 1932); *ibid.*, (M.A., 1936).

Carl Lauritzen, B.S. in E.E., *Assistant Professor of Electrical Engineering.*

University of Minnesota, (B.S. in E.E., 1924); *ibid.*, Graduate study.

Joseph Melvin Lien, A.B., *Part-time Instructor in Pharmacy and Chemistry.*

Valparaiso University, (A.B., 1905).

Carl Frederick Lindberg, Ph.D., *Assistant Professor of Education and Psychology.*

Augustana College, (A.B., 1914); Graduate study at University of Kansas, (Ph.D., 1933).

Alfred J. Link, J.D., *Lecturer in Law.*

University of Chicago, (Ph.B., 1916); *ibid.*, (J.D., 1917).

Frederick V. Lofgren, Ph.D., *Professor of Pharmacy and Pharmacology.*

University of Washington, (Ph.G., 1920); *ibid.*, (B.S., 1920); *ibid.*, (M.S., 1925); *ibid.*, (Ph.D., 1930); Graduate study at The University of Chicago.

†H. H. Loring, LL.B., *Lecturer in Law.*

Valparaiso University, (LL.B., 1894).

Donald D. Mallory, M.S. in E.E., *Instructor in Electrical Engineering.*

Valparaiso University, (B.S. in M.E., 1928); Graduate study at University of Michigan, (M.S. in E.E., 1935).

Alfred H. L. Meyer, Ph.D., *Associate Professor of Geography and Geology.*

McKendree College; University of Illinois, (A.B., 1921); Graduate study at The University of Chicago; University of Illinois, (A.M., 1923); Northwestern University; University of Michigan, (Ph.D., 1934).

Walther Martin Miller, M.A., *Associate Professor of German.*

Concordia (Junior) College, Fort Wayne, (Diploma, 1916); Concordia Theological Seminary, (Diploma, 1919); Graduate study at Harvard University, (M.A., 1922).

Howard Wilson Moody, Ph.D., *Professor of Civil Engineering.*

Cornell College, (A.B., 1902); Graduate study at The University of Chicago, (Ph.D., 1912).

John Wallace Morland, J.D., *Professor of Law.*

Indiana State Normal College, (Diploma, 1910); Indiana University, (A.B., 1916); *ibid.*, (LL.B., A.M., 1917); Graduate study at University of Chicago, (J.D., 1922).

Gaynell Neff, M.A., *Instructor in Health and Director of Intramural Athletics for Women.*

Ohio State University; University of Missouri, (B.S., 1920); Chicago Normal School of Physical Education, (Diploma, 1922); Graduate study at Columbia University, (M.A., 1930).

Derrill Raymond Place, A.M., *Instructor in English.*

Wabash College, (A.B., 1930); Graduate study at Ohio State University, (A.M., 1931); University of Southern California; Cornell University; University of Toulouse; University of Munich; Columbia University.

Elizabeth Anna Marie Rechenberg, A.M., *Instructor in German.*

Valparaiso University, (A.B., 1921); Graduate study at Indiana University, (A.M., 1929).

Mark B. Rockwell, LL.B., *Lecturer in Law.*

Ohio Northern University, (B.S., 1901); Valparaiso University, (LL.B., 1904).

*Ralph Eugene Schenck, M.A., *Part-time Instructor in Education and Psychology.*

Indiana State Teachers College, (A.B., 1917); Graduate study at The University of Chicago, (M.A., 1927).

Richard Schoenbohm, A.B., B.S., *Instructor in Music.*

Wartburg College; Theological Seminary, Dubuque; Iowa State Teachers College; Michigan State Normal, (A.B., B.S., 1930); Institute of Musical Art, Detroit.

†Died December 25, 1936.

*First Semester, 1936-1937.

Ernest George Schwiebert, Ph.D., *Professor of History and Political Science.*

Capital University, (A.B., 1921); Capital University Theological Seminary; Graduate study at Ohio State University, (M.A., 1923); University of Chicago; Cornell University, (Ph.D., 1930).

Albert Frank Scribner, A.B., *Registrar-Business Manager, Secretary of the Faculty.*

Valparaiso University, (A.B., 1931); Graduate study at University of Kentucky.

Gerald Hayden Stoner, M.D., *University Physician.*

Valparaiso University, (Ph. G., 1897); Wabash College, (Ph.B., 1901); Loyola University, (M.D., 1905).

Ancil Ridgeway Thomas, Ph.D., *Associate Professor of Physics.*

Earlham College, (B.S., 1925); Marion College; Graduate study at Washington University, (M.S., 1926); *ibid.*, (Ph.D., 1930).

Walter Eugene Thrun, Ph.D., *Associate Professor of Chemistry.*

Northwestern College; University of Michigan, (A.B., 1912); *ibid.*, (M.S., 1914); University of Missouri, (Ph.D., 1917); Johns Hopkins University.

Moses Walter Uban, A.B., B.S. in M.E., *Assistant Professor of Mechanical Engineering.*

Valparaiso University, (A. B., 1922); *ibid.*, (B.S. in M.E., 1932); Graduate study at The University of Chicago.

Herbert H. Umbach, Ph.D., *Instructor in English Language and Literature.*

Concordia (Junior) College, Fort Wayne, (Diploma, 1926); Concordia Theological Seminary, (B.D., 1929); Graduate study at Washington University, (M.A., 1930); Cornell University, (Ph.D., 1934).

Louis Albert Wehling, J.D., *Instructor in Law.*

Crane Junior College; University of Illinois, (A.B., 1932); University of Arizona; University of Chicago, (J.D., 1935).

*Russell Harrison White, A.B., *Part-time Instructor in Education and Psychology.*

Indiana State Normal School; Indiana University; Central Normal College, (A.B., 1927); Valparaiso University; Graduate study at Butler University.

Charles Frederick Ziebarth, M.A., *Assistant Professor of Business Management and Economics.*

State College of Washington, (A.B., 1931); *ibid.*, (M.A., 1932); Graduate study at The University of Chicago.

Myers E. Zimmerman, A.B., *Instructor in Shorthand and Typewriting.*
Valparaiso University, (A.B., 1921).

Critic Teachers

(1936-1937)

Valparaiso Public Schools

Emma R. Foor, A.B.	English
Dessa Hudson, Ph.B.	Commerce
Wm. R. Kendall, B.S.	Biology
John M. Koch, A.B., A.M.	German
Irene McCoy, A.B.	English
Clare McGillicuddy, A.B.	Geometry
Mary Myers, B.S.	Music
C. O. Pauley, A.B.	Chemistry and Algebra
Frank Grafton Reid, B.S.	History
Harold Rogers, B.M.	Music
Ralph E. Schenck, A.B., M.A.	History and Bookkeeping

*First Semester, 1936-1937.

Student Assistantships

(1936-1937)

Jean Allett, Assistant in the Department of Chemistry.
Clara Belle Anders, Assistant in the University Library.
Albert Anhold, Assistant to the Director of Athletics.
Verla Babcock, Assistant in the University Library.
Hermine Beiderwieden, Assistant in the Dean of Students' office.
Rosemary Blaese, Assistant in the Department of Business Management.
Marvin Cook, Assistant in the University Library.
B. William Drzewicki, Assistant to the Director of Athletics.
Myrtle Ehlers, Assistant in the University Library.
Jean Ehlert, Assistant in the University Library.
Glenn Erickson, Assistant in the Department of Mechanical Engineering.
Kurt M. Falk, Assistant in the University Library.
Paul Fleck, Assistant in the Department of Civil Engineering.
Lloyd Frevert, Assistant in the Library of the School of Law.
Walter Graul, Assistant in the Department of Biology.
Edgar Grosnick, Assistant in the Department of Music.
Rosaline Grosz, Assistant in the University Library.
Roberta Haller, Assistant in the Department of English Language and Literature.
†Alfred Henkel, Assistant in the Department of Social Science.
Edwin Johnson, Assistant in the University Library.
William Karr, Assistant to the Director of Athletics.
†Arthur Karsel, Assistant in the University Library.
Darrell Kautz, Assistant in the Department of Music.
Herbert Kugler, Assistant in the Library of the School of Law.
Frederick Max, Assistant in the University Library.
Theodore Miller, Assistant in the Department of Physics.
Mary Frances Morland, Secretary in the office of the School of Law.
Hilbert Plischke, Assistant in the College of Pharmacy.
Ruth Ressmeyer, Assistant in the Department of Education and Psychology.
Dorothyne Rickard, Assistant in the University Library.
George Roedel, Assistant in the Department of Chemistry.
Arnold Salvner, Assistant in the Department of Geology and Geography.
Magnus Schoenherr, Assistant in the University Library.
Bernhardt Schwandt, Assistant in the Department of Chemistry.
Clifford Schwan, Assistant in the Department of Business Management.
Margaret Schwan, Assistant in the University Library.
Alfred Sieving, Assistant in the Department of Mechanical Engineering.
Edward Sullivan, Athletic Stockroom.
Ruth Ungrodt, Assistant in the Department of German.
Paul Wachholz, Assistant in the Department of Social Science.
Robert Younglove, Assistant in the Department of Biology.

†First Semester.

CHAPTER II

PART II

GENERAL INFORMATION

History and Aims

A new chapter in the history of Valparaiso University was begun in the summer of 1925 when this institution was purchased by the Lutheran University Association, an Indiana corporation, composed of men and women of the Lutheran faith who belong to churches affiliated with the Synods comprising the Evangelical Lutheran Synodical Conference of North America. This association today owns the physical property and controls the policies of the institution.

The history of Valparaiso University dates back to the days before the Civil War, when on September 21, 1859, the Valparaiso Male and Female College was opened in Valparaiso, Indiana. The beginning was auspicious; the reverses suffered as a result of the Civil War, however, compelled the suspension of classes in 1869. On September 16, 1873, the college was reopened as the Northern Indiana Normal School and Business Institute by Henry Baker Brown, who was joined in 1881 by Oliver Perry Kinsey. Under the leadership of these men the school grew rapidly in numbers and in influence. In 1900 its name was changed to Valparaiso College, and in 1907 to Valparaiso University.

The primary consideration prompting the acquisition of Valparaiso University by the Lutheran University Association was that of providing the church-body, to which its members belong, with a school of higher learning which would devote itself to the education of its young people in the fields of secular knowledge. While the synods of the Synodical Conference had for years maintained numerous schools for the training of pastors for their pulpits and teachers for their parish schools, none of them maintained an institution of higher learning specifically to train their young people for the lay professions. It was the desire to supply this need in the educational program of the church that led to the organization of the Lutheran University Association and to the acquisition of Valparaiso University by this association.

While Valparaiso University as an institution of higher learning under Lutheran auspices indeed welcomes students of all religious persuasions, without distinction or discrimination, its chief field of service is to the young men and women of its own communion. It aims to serve these young people by offering them a thorough general, advanced and special training in such fields of learning as its facilities and resources permit, and by offering them this training in an environment which, by deepening their Christian consciousness, will at the same time tend to promote their spiritual well-being and growth.

Valparaiso University seeks to realize the aims and ideals of its supporting constituency through the total pattern of its activities under the guidance of a faculty and an administration committed to these ideals.

As its motto it has adopted the word of the inspired psalmist: "In luce tua videmus lucem" (In Thy light shall we see light).—Ps. 36, 9.

Location

The University is located at Valparaiso, Indiana, forty-four miles southeast of Chicago. Valparaiso, a city of eight thousand inhabitants and the county seat of Porter County, is located in a thriving agricultural region adjoining the populous industrial communities of the Calumet District. Gary, Hammond, Indiana Harbor, Whiting, Michigan City, LaPorte, and South Bend are within easy reach. The Lincoln Highway and the Yellowstone Trail give easy access to the city for those who travel by automobile. Three railroads, the Pennsylvania, the Grand Trunk, and the Nickel Plate, give Valparaiso service better than that boasted by many larger communities. Excellent commutation service is maintained with Chicago. An electric interurban line links the city with Gary.

The city is beautifully located approximately on the crest of what is called the Valparaiso Terminal Moraine, the highest ridge in northern Indiana,

which acts as the watershed between the Great Lakes-St. Lawrence and the Mississippi drainage system. From College Hill, a knoll rising to an elevation of about 790 feet above sea level at the southeastern edge of the city, where the University buildings are grouped, the view to the south, in the direction of the Kankakee River and its famous marshes, is especially beautiful. Sager's Lake, which lies in this direction, is a particularly favored spot. Toward the north, the Sand Dunes are of unusual interest as natural formations of great geologic, biologic, and scenic interest.

Unusual opportunities are offered to students of geology, botany, and zoology in the natural laboratories provided by the desert conditions of the dunes, and by the abundance of water and aquatic plants and animals in the intermorainal and interdunal pockets on either side of the main ridge. Furthermore, the nearness of the Calumet industrial region and the exceptionally central location of the University with respect to Chicago, Detroit, and Indianapolis make this an especially favored school from the standpoint of the applied science, both physical and social, as well as from that of the commercial studies. Inspection trips to the Field Museum of Chicago, to the steel mills of Gary, and to the Dunes State Park form a regular part of the course of study in the several departments.

From a residential point of view, Valparaiso offers many advantages which are lacking in the great cities: abundance of pure air, broad, shaded streets, and open country within fifteen minutes' walk from the business district. As a place for the training of youth, Valparaiso offers advantages superior in many respects to those of the big city, since it is not, as in the case of the latter, handicapped by many disturbing influences.

Buildings and Equipment

The University occupies a number of commodious buildings, grouped in the neighborhood of University Place.

The Auditorium is on the west side of College Avenue. The ground floor contains the Office of the Registrar-Business Manager, some lecture rooms and several departmental offices. The second floor has a large auditorium with a seating capacity of about fifteen hundred.

Music Hall, a three-story building, is directly opposite the Auditorium. It contains the University administrative offices, a number of studios, harmony and recital halls, and many private practice rooms.

Science Hall faces north and is opposite the Auditorium on University Place. The ground floor contains the physics laboratory and work-shop, a large chemical laboratory and the general stock room. The first floor contains the lecture rooms for physics and chemistry, the analytical laboratory, weighing room, offices for the chemistry and physics departments, and a research laboratory. The second floor houses the College of Pharmacy with its offices, a large pharmacy and dispensing laboratory, a pharmacognosy laboratory, and several lecture rooms.

Immediately west of Science Hall is the Biology Building, containing a number of lecture rooms and three well-equipped laboratories for botany, geology and zoology.

The University Library is housed in a building north of the Auditorium, on College Avenue. It contains 25,129 volumes of books, 1,415 unbound periodicals, 2,727 government bound volumes, 10,123 pamphlets, and 14,691 government pamphlets. It subscribes for approximately 166 periodicals.

Arts-Law Hall, a modern building, is north of the Library, at the intersection of College Avenue and Freeman Street. This building houses the School of Law with its library on the first floor, and several departments of the College of Liberal Arts on the second and third floors.

The Engineering Building, corner College Avenue and Union Street, is used exclusively for engineering. There are extensive machine shops, electrical

laboratories, woodworking shops, drafting rooms, testing laboratories, foundries, and a modern power plant.

A building devoted to Health and Physical Education is one of the first structures to be erected according to the plans of the Board of Directors. Meanwhile, adequate arrangements have been made with the public school authorities for the use of their commodious High School Gymnasium. Brown Field is well equipped for outdoor athletics. The field is located near the University, on a tract of land which is reserved for additions to the present University plant.

Grounds, buildings, and equipment are appraised at more than \$900,000 by the American Appraisal Company.

Cost

The University tries to keep the cost of tuition, fees, board, and room at a figure that is reasonable and at the same time consistent with its determination to live up to its ideals in education.

Tuition and Fees

Tuition costs \$175.00 for the entire school year, payable \$87.50 each semester.

General fees—for athletics, health service, the use of the library, and special lectures—amount to \$18.00, payable \$10.00 the first semester and \$8.00 the second semester.

Laboratory fees are charged in some departments and are listed under the respective courses. The deposits listed for some courses are returnable at the end of the semester, less breakage.

Applied Music Fees

The University tries to encourage students to continue applied music instruction in college by charging a modest fee for private lessons.

In addition to the regular tuition cost, eighteen private lessons in applied music may be taken for twenty-five dollars per semester. Rental of a private practice room with piano for one daily practice hour is five dollars per semester; for each additional hour a charge of five dollars is made per semester. A few orchestral instruments are available at a rental fee of five dollars per semester and a deposit fee of two dollars. The deposit fee is refunded, less any damage expense to the instrument.

Tuition and Fees for Part-Time Students

Part-time students are students who register for nine credit hours or less. Students who register for from seven to nine credit hours pay \$6.00 per credit hour and full general fees.

Students who register for six credit hours or less pay a library fee of \$2.50 per semester in addition to a tuition charge of \$6.00 per credit hour.

Auditors pay only \$6.00 per credit hour equivalent.

Board

Board is provided under pleasant surroundings at the University restaurant in Altruria Hall. The student may purchase individual meals or buy meal tickets for \$4.00 each. Many students require only one ticket per week. Thus their board amounts to \$72.00 the semester.

Freshmen are required to take their meals in the University restaurant.

At the beginning of each semester, therefore, they will either purchase or contract for a minimum of eighteen four-dollar meal tickets.

Rooms

The University maintains a dormitory for men which is known as Lembke Hall. This is divided into two wings, known as North and South Lembke.

The accommodations at Lembke Hall include a club room, a few single rooms, and a large number of two-room suites for two students.

Freshmen who do not live with their parents or guardians are required to live in Lembke Hall.

Additional quarters for men students are listed in the University's record of approved rooming houses.

Altruria Hall is the dormitory for women. It has a large reception hall, some single accommodations, and many rooms for two students. Women students who do not live with their parents or guardians are required to live at Altruria Hall.

Lembke and Altruria Halls, as well as all approved rooming houses, are under the care of resident matrons or house mothers.

All rooms in the University dormitories are provided with the necessary furniture. However, occupants supply their own blankets, sheets, pillows, pillow cases, towels, floor coverings, and curtains.

University women and first-year men who cannot be accommodated in their respective halls will be assigned to other rooms.

Rooms in the University's halls may be had at rates ranging from \$31.00 to \$41.00 in the men's dormitory and from \$31.00 to \$46.00 in the women's dormitory.

Table of Minimum Costs

The following table of *minimum* costs is supplied for the convenience of parents or guardians and students:

For each semester:

Tuition	\$ 87.50
General Fees	9.00
Board	72.00
Room	32.00
Total	<u>\$200.50</u>

Amounts due the University are payable in full at the time of registration for each semester.

A time payment plan may be arranged with parents or guardians on tuition, music lessons, board, and room, but not *fees and other similar minor items* which are always paid in advance. A small carrying charge of 50 cents for each \$50.00 or fraction thereof will be collected in advance on deferred amounts to reimburse the University for the extra cost of carrying and collecting accounts.

Application for spreading payments over the semester is made to the Business Manager by parents or guardians direct, either in writing or in person; and all arrangements should be completed *before* registration in order to avoid delay and confusion.

No student will be registered if his account for the preceding semester has not been settled. No degree will be conferred upon or transcript of credit given for the student whose account with the University or the Student Council has not been settled in full.

Refunds

In case of *formal voluntary withdrawal only*, the tuition fee is refundable as follows: two-thirds until two weeks and one-third until ten weeks after the official day of registration of a semester. If the student is dismissed there is no refund of this fee.

General, special, and laboratory fees are never refunded.

Unused portions of payment made for board and room are refunded in all cases of withdrawal.

Refunds are made to parents or guardians direct, unless the University is instructed by them to remit to the student. Refunds must be claimed in writing at the latest within six months of the close of a given semester. Amounts not claimed within the specified time are turned over to the University's student loan fund.

Special Fees

Matriculation—\$5.00. This fee is payable once only, when the student is first admitted to the University.

Late Registration—Fifty cents per day until the close of registration.

Condition Examination—\$3.00.

Make-up or Special Examination—\$1.00.

Change in Program—\$1.00, unless the change is required by the University. See change in program under Admission.

Graduation—\$10.00; payable during the first week in November preceding the date of the student's graduation.

Payee

Drafts, checks, and money orders should be made payable to the Valparaiso University Association.

Routine of Matriculation

Upon reaching Valparaiso, new students should come to the office of the Dean of Students who will supply the necessary information respecting registration, rooms, and board.

Student Council Fees

The student council has been entrusted with the management of certain student activities and is authorized to collect the following activities fees:

\$12.00 for the year, payable \$8.50 at the beginning of the first semester and \$3.50 at the beginning of the second semester. This entitles the student (1) to *The Torch* which is published approximately thirty times by the journalism class under the supervision of the Department of English, and contains campus news; (2) to admission to the lectures and entertainments of the student lyceum; (3) to band and orchestra concerts sponsored by the council; and (4) to student debates and dramatic productions (upwards of fifteen admissions are offered under this fee); (5) to *The Uhlan*, the students' annual which contains a comprehensive record of the year's activities.

Religious Activities

The principal concern of the Dean of Students is the spiritual welfare of the students at the University. Chapel exercises are conducted every morning from Monday to Friday during the regular scholastic year. All Lutheran

students are required to attend the daily chapel period unless excused by the Dean of Students. The University regards these devotions as its family altar. The chapel period is emphasized for the sake of cultivating and strengthening the student's spiritual life.

Gamma Delta

A chapter of Gamma Delta, an organization for Lutheran students on university campuses in our country, engages the interest of a number of our students in its varied program of religious work and activities. Meetings are held in the local parish hall twice a month. The program is in charge of the members of the chapter of Gamma Delta under the direction of a member of the faculty.

Church Attendance

All students are expected to attend the church services of their denomination regularly every Sunday. Every courtesy is extended to the pastors of the city of Valparaiso to enable them to do pastoral work in the interest of the students of their faith.

Student Conduct

Matters of conduct are in the hands of the Dean of Students. Supervision of all social activities is maintained by his office.

The University takes the attitude that all the resources of college life must tend to develop moral character in young men and women. Students, therefore, are expected to learn the value of following rules and regulations enacted for the welfare of group life. Obedience to law is best learned by the actual practice of obedience. Accordingly, set regulations, shown by experience to be salutary for all students, are enforced at the University.

There are offenses which inevitably involve the separation of a student from the University, such as willful or habitual disregard of college regulations, gambling, inebriety, any form of impurity, the continual use of profane or obscene language, and dishonesty in the classroom and in campus relationships. Furthermore, the University insists that any marriage, either party to which is a student of Valparaiso University, must be publicly announced. For this purpose, written consent for such marriage must be filed with the Dean of Students by the parents or guardian of the student prior to its solemnization. Any attempt to keep the fact of the marriage secret will result in indefinite suspension effective from the date of the marriage. Finally, the University reserves the right at any time to terminate a student's enrollment whenever his conduct in its opinion is prejudicial to the best interests of the University. Such conduct may involve destructive criticism and a habitual attitude of opposition to plans for the promotion of the welfare of the University and its student body.

Student Aid

There are a number of forms of student aid available at Valparaiso University. All forms of student aid are granted only after a thorough investigation by the University's Committee on Student Aid. The extent and nature of aid to be granted is determined, with the exception of endowed scholarships, by the Committee on the merits of each case. In general, however, the scholastic record, the need of financial assistance, and the character of the student are the determining factors upon which the Committee will base its final decision. All forms of student aid are granted for one year only and reapplication must be made for subsequent aid. Student aid, furthermore, may be revoked at any time if, in the judgment of the Committee, the student to

whom it has been awarded has not done satisfactory work, or if for any other reason the Committee feels the aid has been misplaced.

All student aid is applied on board, room, or tuition, as may be the case. In accepting student aid, all recipients must contract for full board at the University Restaurant and room in the University dormitories. Exceptions to this regulation are granted to students whose parents or guardians have established a permanent residence in Valparaiso, daily commuters to nearby cities, and fraternity members in good standing living in homes of fraternities listed by the University Administration. Full board is considered to be not less than eighteen meal tickets per semester, valued at \$4.00 each.

Endowed Scholarships

The following scholarships have been established by friends of Valparaiso University:

- The A. F. Beckman Scholarship* in the sum of \$200.00.
- The (Mrs.) Amalie Bokerman Scholarship* in the sum of \$175.00.
- The John V. Borgerding Scholarship* in the sum of \$175.00.
- The Mary Hilgemeier Scholarship* in the sum of \$200.00.
- The Mr. and Mrs. Dirk Meyer Scholarship* in the sum of \$200.00.
- The H. L. Ulbrich Scholarship* in the sum of \$175.00.
- The F. G. Walker Scholarship* in the sum of \$175.00.
- The Mr. and Mrs. Henry Wehrenberg Scholarship* in the sum of \$200.00.

Other Scholarships

The Philip Wambsgans Memorial Scholarship for a student of Allen County, Indiana, in the amount of \$175.00 per year.

The Porter County (Indiana)-Valparaiso University Scholarships. Five scholarships in the sum of \$100.00 each are awarded annually to high school seniors in Porter County. A competitive examination is required of all candidates. Selection is made by a special committee composed of the county superintendent of schools and three high school principals.

Annually the Board of Directors authorizes a number of scholarships in varying amounts for students who have maintained superior records in high school and college. Recipients of scholarships are expected to devote their full time to their studies. Outside employment by scholarship students is not permitted, except in rare cases, and only upon special permission of the Committee.

Student Assistants

A number of student assistants are employed by the University in the laboratories, general library, law library, or in such other departments as may require the services of an assistant. These assistantships are available to students who have been in residence for at least one year. Appointment to an assistantship is granted only on the recommendation of the dean of the college or head of the department in which the student is to serve. Such recommendation will only be made for students who show a special fitness for the particular work and who have superior scholastic records.

Student Aid Awards

Student aid awards are one form of part-time work. They are granted to students in real need who have scholastic records which in the judgment of the committee will enable them to be employed for a reasonable number of hours per week without jeopardizing their scholarship. As in the case of all other forms of student aid, these awards are granted for one year only. Scholarship which is below average (C) at the end of the first semester may cause the revocation of such aid.

The Business Manager of the University assigns all recipients of student aid awards to University part-time employment. The requirements of the particular work and the fitness of the student to perform the services required in a satisfactory manner are the determining factors upon which the Business Manager makes the assignment.

Students receiving this form of aid may be employed in the University's offices, and the University Restaurant. A number of students are also assigned to perform janitorial work, campus gardening, and other similar services.

Student Loans

The Henry Strong Educational Foundation allots a certain amount of money each year for the making of loans to upper-classmen. Candidates are recommended by the Committee on Student Aid. Repayments are due after graduation; 10% the first year, 20% the second year, 30% the third year and 40% the fourth year. Interest at 4% accrues after graduation. All repayments are again credited back to Valparaiso University for use in making additional loans. No loans can be made to students over twenty-five years of age.

Method of Application for Aid

Student aid is granted only on the basis of formal application to the committee on the University's approved form. New students must also submit their application blank for admission. Any form of student aid extended may be automatically voided if it is found that the applicant has misrepresented any facts given or has failed to abide by the conditions under which the aid is granted either before or after actual residence at the University. Application for all forms of student aid should be made to the Secretary of the Committee on Student Aid.

Health and Physical Education

Every student, upon entering, receives a physical examination which forms the basis for special advice and for prescribed work where this is needed.

Athletic sports and exercises for men are encouraged as a part of the University's program of physical education. The University is a member of the Indiana Intercollegiate Conference and fosters both intercollegiate and intramural athletics.

Under the supervision of the director of intramural athletics for women provision is made for participation in the following sports and activities: soccer, badminton, archery, basketball, bowling, volley-ball, baseball, tennis, golf, swimming, and horse-back riding. Women students are encouraged to participate in at least one sport each season.

Student Organizations and Extra-Curricular Activities

Student Council

The Student Council is composed of representatives chosen by the various colleges who, with representatives of the administration, make a body before which the larger student affairs of the University are presented for discussion and solution. A monthly forum gives opportunity to the student body of the University to express themselves on important questions pertaining to student affairs and suggest solutions. The responsibility for desirable school spirit has not been misplaced. The representatives on the Student Council have thus far proved themselves young men and women of high ideals.

Special Lectures and Concerts

An important feature of the activities of the University is an annual series of special lectures and entertainments. These programs are secured by the Lecture and Entertainment Committee upon approval by the Student Council and by the administration. All students are admitted on student passes. The programs are planned to contribute to the cultivation of literary and musical interest.

Student Publications

The weekly newspaper of the University, "*The Torch*" is edited by a staff which is appointed by the Student Council. The staff operates under the supervision of the Department of English Language and Literature. The paper serves the purposes of a laboratory for students interested in journalism.

The year book, "*The Uhlan*," is published by a staff composed of members of the junior class appointed by the Student Council. The staff operates under the supervision of two departments, that of Business Management and Economics and of English Language and Literature. The year book furnishes information on the faculty, classes, activities, and organizations of the year.

Class Organizations

Each of the four student classes maintains a permanent organization, with officers and a treasury, for the management of class affairs. It is expected that students will become members of these organizations and participate in the normal activities of the class.

Literary and Scientific Societies

Departmental and honorary societies of the University give ample opportunity to all students to present essays, orations, discussions, and criticisms, as well as to hear men and women of note in their respective fields of learning. The societies include such groups as the Biology Club, Chemistry Club, Commerce Club, Education and Psychology Club, English Club, Mathematics Club, Engineering Society, Valparaiso Pharmaceutical Association, the University Lawyers' Association, Alpha Psi Omega (dramatics), Iota Sigma (journalism), Pi Gamma Mu (social science), and Phi Sigma (forensics).

Intercollegiate and Intramural Athletics

Athletics, although not over-emphasized, are given a prominent place in student activities. Valparaiso University is a member of the Indiana Intercollegiate Conference and participates in the major college sports, football, basketball, golf and tennis. Intercollegiate athletics for men are controlled by the director of intramural and intercollegiate athletics and a faculty committee. All men who have won the athletic letter "V" through participation in college athletics make up the Varsity V Association. This association functions particularly at home-coming celebrations. Interclass and intramural competition is likewise encouraged. Students are urged to participate in some form of athletic activity. Eligibility rules govern membership on the various athletics teams.

The intramural program of athletics and sports for women as sponsored by the Women's Athletic Association is under the control of the director of intramural athletics for women. The platform of the Women's Division of the National Amateur Athletic Federation, in which W. A. A. holds membership, serves as the basis for the conduct of physical activities. Every woman student is eligible for membership in W. A. A. and may become a member upon the fulfillment of a 50-point requirement. These points are to be earned in athletic activities as specified by the Association.

Dramatics

All public dramatic productions are under the control of the Student Council and the University administration. The University Players, an organization under the supervision of the Department of English, gives qualified students an opportunity to act, to direct plays, and to help in the management of dramatic activities. Emphasis is placed upon literary and artistic values rather than upon the merely spectacular, and no attempt is made to imitate the professional theatre.

Debate

The debate squads, which are under the supervision of the Department of English, provide training and experience for all students interested in debating. The University is a member of the Indiana Debate League and of the Midwest Debate Conference. Phi Sigma, a local honorary forensic fraternity, annually elects several members of the debate squads to membership.

Students interested in debating are urged to take the courses offered in Public Speaking (English 81, 82).

Musical Organizations

The University Choir provides opportunity for the singing of sacred music *a capella*. All students interested in choral work may try out for membership in this organization. Approximately seventy students are selected by the Director of the University Choir to make the annual tour. A University Orchestra is also an excellent organization on the campus and any student interested may participate.

PART III

ADMINISTRATIVE PROCEDURE

Administrative Procedure

Admission and Registration

Graduates with acceptable scholastic records from recognized secondary schools will be admitted to the freshman class of Valparaiso University. In addition to satisfactory academic attainments as indicated by the scholastic record, importance is attached to qualities of character and personality. The University secures information upon these points from the data contained in the application blank filed by the student.

The admission, continuance upon the rolls, and graduation of every student is subject to the disciplinary powers of the University. A student is received only upon condition that his connection with the University may be terminated whenever, in the judgment of the executive, his conduct is such as to be prejudicial to the best interest of the University.

Application for Admission

An application blank may be secured by addressing the Registrar. This should be filled out and forwarded to the Registrar of the University as early as possible. A student's credentials must be approved by the Registrar before his registration is complete. All certificates upon which admission is granted become the property of the University and are preserved in its permanent files.

Graduates of High Schools Accredited by the North Central Association

A graduate of a high school accredited by the North Central Association of Colleges and Secondary Schools, or a similar regional accrediting agency, will be admitted without condition.

Graduates of Other Accredited High Schools

A graduate of any high school which is not recognized by a regional accrediting association may be admitted without condition upon approval of the Committee on Admissions. Each application will be considered upon the basis of individual merit.

Recommended Units for Admission

The following units, *though not essential to admission*, are regarded as *highly desirable*. Students planning their high school work are urged to arrange their schedules in such a way as to be able to present the following units:

English	3	A foreign language.....	2-4
Algebra	1	Social Studies	2
Plane Geometry	1	A laboratory science.....	1-2

A student desiring admission to the College of Engineering must present, in mathematics, one and one-half units in Algebra, one unit in Plane Geometry, and one-half unit in Solid Geometry. A student deficient in Solid Geometry and Advanced Algebra may be admitted as a conditioned student. The condition must be removed during the first year of residence, by passing Mathematics 01, Solid Geometry and Mathematics 02, Intermediate Algebra.

Admission as Special Students

Students not candidates for a degree may be admitted to the University as special students on the approval of the Committee on Admissions. Those seek-

ing this privilege are admitted under the following conditions: (1) they must be prepared to do the work desired and give good reason for not taking the regular course; (2) they must be at least twenty-one years of age.

Special students may become candidates for degrees by meeting the requirements for regular admission.

Special students are not admitted to the School of Law.

Admission to Advanced Standing

Students from other institutions seeking admission to Valparaiso University must present evidence of honorable dismissal from the institution last attended. All claims for advanced credit must be presented to the Registrar in the form of an official transcript. The University reserves the right to reject any applicant for admission by transfer whose academic record is unsatisfactory.

Registration

All students are expected to register on the official registration days of each semester. Information concerning the official registration days will be found in the University Calendar.

Responsibility of Students Upon Registration

In registering, the student subscribes to the terms and conditions, financial and otherwise, which have been set forth in these announcements.

Freshman Days

The purpose of freshman days is educational guidance and orientation for college life.

All members of the incoming freshman class are required to be in residence in Valparaiso several days before the return of the upperclassmen. The period prior to recitations is known as freshman days. During this time the freshmen are divided into groups. There are lectures on university curricula, regulations, and customs. Various tests and a physical examination are given in order that the University may obtain accurate information concerning the mental qualifications as well as the degree of health of every student. A part of the time is devoted to freshman registration. Each student is then assisted in the selection of his course of study by his faculty adviser. A full program of the activities of freshman days will be sent to each freshman before he comes to the University.

Change of Program

During the first and second weeks of the semester, changes of enrollment may be made with the written approval of the student's adviser. Two weeks after the beginning of the semester no changes of enrollment will be allowed except upon the written approval of the student's adviser, of the instructors concerned, and of the Committee on Scholarship.

Students who wish to drop courses after the second week of the semester should read the regulations regarding grades of "W" and "F". Application for changes in enrollment must be made by the student on proper forms and filed at the Office of the Registrar.

A change-of-enrollment fee of one dollar is payable by each student for each subject changed after the beginning of the third week of the semester or session, unless the change is required by the University.

In no case, except for prolonged illness, will a student be allowed to change

his program of studies or withdraw from a course without a grade of "F", after the end of the sixth week of the semester.

Attendance on Courses as Visitors

Attendance by a registered student as a visitor in a course for which he is not registered is allowed only with the approval of his adviser.

Transfer to Another Program

If a student transfers from one major or program of studies to another, as for instance, from Pharmacy to Law or from Engineering to Education, all requirements of the new specialization must be met. Such a transfer will subject credits previously earned to a re-evaluation. In certain cases the change of program may result in some loss of credit. Therefore, such transfers may not be made without the written approval of the advisers concerned. For a form of such transfer see the Registrar.

Credit Hours

A credit represents one hour of recitation or lecture, or two or more hours of laboratory a week for one semester. If time outside of the laboratory is required to prepare laboratory notes, two hours may be equivalent to one hour of class work. Drawing, shopwork, and other courses demanding no outside preparation require a minimum of three hours for one credit. For the exact number of hours see the respective courses.

Maximum and Minimum Registration

The normal maximum registration for a full program for all students, except as otherwise provided in the special authorized curricula, is seventeen semester credits; and the minimum registration is twelve semester credits.

Students who maintained a standing of two (2.0) during the previous semester may register for extra work, provided their petition for such work is approved by the Committee on Scholarship. This permission will be granted only on written application preferably before registration is completed. Freshmen will not be allowed to carry extra work during the first semester. Students receiving permission to take extra work must obtain a standing of 1.5 in all subjects, or sixteen credits only will be granted, regardless of the hours passed in class.

Number of Credit Hours Without Petition

COLLEGE OF LIBERAL ARTS:

In all departments except as required in special authorized curricula Maximum, 17 credits

COLLEGE OF ENGINEERING:

In Civil, Chemical, Commercial, Electrical, and Mechanical Engineering Maximum, 19 credits

COLLEGE OF PHARMACY Maximum, 18 credits

SCHOOL OF LAW Maximum, 15 credits

Withdrawal From the University

A student who wishes to withdraw from the University for the remainder of a semester or session should apply to the Registrar for a permit to withdraw. Upon return of the permit properly signed, the Registrar will issue an order for the return of such fees as are refundable. In every case the parent or guardian is notified of the withdrawal.

The term "honorable dismissal" refers to conduct and character only, not to class standing and grades. It will not be granted unless the student's conduct and character are such as would entitle him to continue in the University.

On withdrawal every student who has met all financial obligations to the University is entitled to a transcript which contains all the important facts pertaining to his admission, classification, and scholarship.

Regular Examinations

The regular written examinations of the University are held at the close of each semester. Each examination is usually limited to three hours.

In addition to the regular prescribed examinations, written tests are given from time to time, at the discretion of the instructor.

The semester examinations are conducted according to a published schedule.

Senior Examinations

All examinations of seniors in the semester of their graduation must be completed by the evening of the Tuesday before Commencement Day. This does not apply to seniors who are to complete their work at the end of the first semester or in the summer session.

Special Examinations

Special examinations are given only to conditioned (grade E) students and to students who for adequate reasons have not been able to be present at regular examinations or written tests. The privilege of special examination is granted by the adviser on recommendation of the instructor. A condition grade of E must be removed by special examination during the next academic semester. If not so removed, the grade E becomes a grade F (failure) and the Registrar is authorized to make the change on the student's permanent record. In no case may a student remove a grade F by special examination. The subject must be repeated for credit.

A student is charged a fee of three dollars for each condition examination and a fee of one dollar for each special examination. This fee must be assessed by the Registrar and paid to the Business Office before the examination can be given by the instructor.

Marking System and Quality Points

Results of work will be recorded in the Registrar's Office as follows:

A. Work of the best grade, excellent; valued at three (3) quality points for each credit.

B. Work better than average, good; valued at two (2) quality points for each credit.

C. Average work, fair; valued at one (1) quality point for each credit.

D. Work below average, unsatisfactory; indicates a deficiency and gives no quality points, but gives credit for graduation if with such credits the student's standing is one (1) or more.

E. Condition grade. This grade is given only when there is a good reason for the deficiency and reasonable probability that it can be remedied. It requires a special examination for its removal to be taken during the student's next semester of residence. If the student does not enroll for the next semester after having received a grade of E, the next semester of residence must be within a period of three years thereafter; otherwise the grade becomes F automatically. When the work has been brought up to the passing grade within the specified time, the E is converted into D, but not into a higher grade.

F. Failure, valued at 0 credits and 0 quality points.

I. Incomplete. Indicates satisfactory work, some part of which is incomplete. It must be removed during the first semester in which a student attends school after having secured the I, otherwise it becomes an F automatically. If the student is not in attendance during the next semester after having received a grade of I, a maximum of three years is allowed for the removal of same. If the grade of I is not removed within this time limit, the grade becomes F automatically.

W. An authorized withdrawal. (See Change of Program). This mark carries no credit.

Any student withdrawing from a subject without first securing the official permission of his adviser will receive a grade of F in that subject for the semester.

Definition of the Standing of a Student

A student's standing is determined by the ratio of his total number of quality points to his total number of credits. Thus, a student who makes an average mark of C throughout his course of 120 semester hours will have 120 quality points, 120 credits, and a standing of one. An average mark of B will give the student 240 quality points, 120 credits, and a standing of two. When a semester's work is to be considered, "standing" is understood to be the ratio of the number of quality points gained to the number of credits scheduled.

Any student whose standing for the previous semester is .5 or less is put on scholastic probation; and if his standing for the next semester is less than 1.0, he may be suspended or dropped from the University. A student whose standing for any semester is .25 or less, may be dropped from the University.

Semester Reports From the Registrar

Reports are sent to parents and guardians of all students in the University at the end of each semester.

Mid-Semester Reports From the Adviser

On November 18 and April 5 the instructors report to the Registrar all students whose grades fall below C. The Registrar reports such students to their advisers in order that they may hold a special conference with the students concerned.

Classification of Students

A student in any college is classified according to the number of credits and quality points earned toward a degree. To be classified as a senior for the current year, a student must have a standing of one or more and be allowed to carry sufficient work to complete his requirements for graduation by the close of the summer session.

To be classified as a junior, a student must have within ten credits of the normal amount of work, and no less than a standing of one; to be classified as a sophomore, he must have within ten credits of the normal amount of work and no less than a standing of one.

Classification of Courses

The courses offered by the University are classified as (a) lower division courses, numbered 1-100; and (b) upper division courses, numbered 100-199.

Yr.—Subjects so marked are year courses. Credit may not be given for less than one year's work. A final semester grade, however, is reported by the instructor.

Graduation

Responsibility of Student

Every candidate for a degree is himself responsible for meeting all requirements for graduation. No University officer can relieve him of the responsibility.

Degrees

Upon the recommendation of the faculty of the College of Liberal Arts, the University confers the degree of Bachelor of Arts. Upon the recommendation of the faculty of the College of Engineering, the University confers the degree of Bachelor of Science in Engineering. Upon recommendation of the faculty of the College of Pharmacy, the University confers the degree of Bachelor of Science in Pharmacy. Upon recommendation of the faculty of the school of Law, the University confers the degree of Bachelor of Laws. All work toward a degree must have been completed to the satisfaction of the faculty recommending the degree. In all cases, the student is responsible for meeting the requirements for graduation.

Credit and Quality Point Requirements

The minimum number of credits and quality points required for graduation varies with the courses chosen, as shown in the following summary. Candidates for degrees must meet the requirements in both number and kind of credits, as outlined in the catalog for the year of matriculation, or for the year of graduation.

A student who returns to the University after an absence of five or more years, may no longer be a candidate for a degree on the basis of the catalog under which he first entered the University, but must fulfill for graduation, all the requirements and provisions of the catalog of the year in which he re-enters the University.

Degrees	Credits Required	Quality Points Required
Bachelor of Arts—		
In all departments.....	128	128
Bachelor of Science in Engineering—		
In all departments.....	144	144
Bachelor of Science in Pharmacy.....	135	135
Bachelor of Laws.....	77	77

Residence Requirements

Candidates for degrees must spend, except as noted elsewhere, at least the last year (thirty-six weeks) or three summer sessions (ten weeks each) in residence.

The last year of work is to be construed as a year of not less than thirty semester hours of credit in the College of Liberal Arts, Engineering and Pharmacy, and twenty-four semester hours of credit in the School of Law.

Ordinarily, credit is not given for correspondence courses taken while in residence at the University.

Application For a Degree

Candidates for graduation must make formal application on forms provided by the Office of the Registrar. The Registrar will call for formal applications for graduation and have them on file not later than the end of the first week in November preceding the date of the student's graduation. The graduation fee must accompany the application.

Students completing their work at the end of the summer school must file their applications with the Registrar at the beginning of the summer session.

Presence at Commencement

A candidate must be present at commencement in order to receive his degree. Degrees are not conferred in absentia, except on special permission

from the President upon recommendation of the Dean of the University.

A student who completes his work toward a degree at the end of the first semester or of the summer session may be granted his degree at that time.

Degrees With Distinction

Two grades of honors are conferred upon candidates at graduation:

1. Students who attain to a standing of 2.6 up to 3 are graduated "With High Distinction." They must have been in attendance at least three years.
2. Students who attain to a standing of 2.4 up to 2.6 are graduated "With Distinction."

A student who has been in attendance only during his last two years may also receive these honors, provided he attains to a standing of .2 greater than the above named. The amount of work is to be the basis of determining the two years' work. In Liberal Arts and Pharmacy, a student completing 60 semester credits at the grade required is eligible for honors. In Law, 48 credits; and in Engineering, 70 credits.

Class Honors in Scholarship

The requirements for class honors in scholarship are as follows:

1. The student must have removed all condition grades of "E" and grades of incomplete.
2. He must have been registered for at least fourteen hours of work per semester, exclusive of physical education, in Liberal Arts, Pharmacy and Engineering, or for at least twelve hours in the School of Law.
3. For freshman honors the student must secure an average of 2 points per credit hour; for sophomore honors, an average of 2.3 points; for junior honors or first and second years in Law, an average of 2.4 points; for senior honors or third year in Law, an average of 2.5 points.

Freshmen reaching the required standard of excellence receive Honorable Mention; sophomores, juniors, and seniors are recognized as Sophomore, Junior, and Senior Scholars, respectively. Senior honors are awarded at commencement; freshman, sophomore, and junior honors at an honor assembly which is held in the fall.

Bureau of Recommendations

The University maintains a Bureau of Recommendations, primarily for the purpose of assisting capable teachers in securing desirable positions and also of cooperating with school officials engaging competent teachers. A fee of \$1.00 is required for registration. Communications with reference to teachers and positions should be addressed to the Registrar, Valparaiso University, Valparaiso, Indiana.

Reservation of Right to Amend Rules and Regulations

The University reserves the right to amend its rules and regulations within the limits of those administrative and academic principles which are commonly accepted by recognized colleges and universities.

PART IV

THE COLLEGE OF LIBERAL ARTS

The College of Liberal Arts

Classification of Courses

The courses offered by the College of Liberal Arts are classified as (a) lower division courses, numbered 1-99; and (b) upper division courses, numbered 100-199.

Objectives

The principal objective of the lower division courses is to offer the student a general education. Many of the courses of the lower division may serve also as tool subjects, or as introductory courses to advanced work; but, as far as possible, the work of the lower division is kept within the objective of a broad cultural education.

The lower division courses have the following objectives:

1. To deepen the student's Christian consciousness of his duty towards God and man.
2. To aid him in becoming more proficient in the use of the English language.
3. To further his knowledge of English literature and to develop his appreciation of what is good in the fine arts.
4. To give him an opportunity to become acquainted with the languages and literatures of other nations.
5. To acquaint him with the physical and social world in which he lives.
6. To develop his ability to work and think independently.
7. To prepare him for the proper use of his leisure time.
8. To enable him to make an intelligent choice of a field of concentration in the upper division.
9. To offer him a limited number of pre-professional programs.
10. To further his physical well-being.

The upper division courses have as their objectives:

1. To continue the pursuit of the objectives of the lower division.
2. To offer the student advanced work in those fields of concentration for which the school has the proper facilities, and in which the enrollment justifies the offering.
3. To offer him a program of teacher training.
4. To prepare him for graduate work.

Degree Requirements of the College of Liberal Arts

In order to realize, in part, the objectives of the College of Liberal Arts, Valparaiso University holds the student to the following degree requirements:

A. In the lower division:

1. *Religion: 6 semester credits.
Freshman year: The Bible, 3 cr.; Jesus and His Teachings, 3 cr.
2. English: 12 semester credits.
†Freshman year: Freshman Composition, 6 cr.
Sophomore year: Survey of English Literature, 6 cr.
3. Foreign Language: 6-12 semester credits.
The student must complete at least six semester credits of work above the first year level.

*These courses are required of all students except those who have received exemption from the Committee on Admissions and Degrees.

†Students who fail to pass the English grammar test given to all new students are required to take a non-credit course in English grammar in addition to Freshman Composition.

4. Social Science: 12 semester credits.
Two courses of a full year each are to be chosen from two of the following fields: economics, education and psychology**, geography, history, philosophy**, political science, and sociology.
5. Natural Science: 16 semester credits.
Two courses of a full year each are to be chosen from two of the following fields: botany, chemistry, mathematics, physics, physiography-geology, and zoology.
6. Health.
Freshman year: Individual Health Program.

B. In the upper division:

1. *Religion: 2 semester credits.
Senior year: The Church and Her Work, 2 cr.
2. Major: 24-36 semester credits.
The student must complete a major of from 24 to 36 semester credits in one field. The credits applied on a major should be predominantly on the upper division level.
3. Minor: 12-16 semester credits.
The student must complete, in addition to his major, a minor of from 12 to 16 semester credits in one field.
Except by special permission of the Committee on Admissions and Degrees, a student may not offer for graduation more than 36 semester credits in any one field.
More specific requirements for majors and minors are given in the descriptions of the various departmental offerings.

C. Electives:

In addition to meeting the requirements of the lower and upper divisions, the student must present for graduation a sufficient number of electives to bring his total number of semester credits to 128.

Approval of Student's Schedule

The schedule of courses of juniors and seniors must have the written approval of the adviser under whose guidance the student is doing his major work. Not only this work, but also all electives should be chosen with the advice and approval of the major professor.

Special Curricula Advisers

The Head of the Department of Biology acts as adviser for *pre-dental* and *pre-medical* students; the Head of the Department of English Language and Literature for students preparing for work in *library* and *journalism*. A special adviser is appointed for *pre-law* students. The Head of the Department of Education and Psychology acts as adviser for students preparing to teach.

Independent Work Courses

A junior or senior, if his particular excellence in the department warrants it, may with the approval of his major professor and the Dean of the College of Liberal Arts register for an independent work course in his major or minor subject. Such a course is characterized by special assignments for study, weekly or bi-weekly conferences, reports and semester papers of some sustained effort. Credit for such courses may be granted to an amount of not more than twelve semester credits. At the end of the semester a written report of the work in such a course, or a paper representing part of the work

**Not open to freshmen.

*This requirement applies to Lutheran students only.

must be read before the staff of the department. A comprehensive oral examination by the staff may be included if the head of the department so elects.

Independent work courses are defined by their larger scope, wider content, and by a more rigorous demand of reading, writing, and thinking.

Pre-Professional Programs

The entrance requirements for these courses are those of the College of Liberal Arts.

Pre-Legal Program

Two years of work, or 60 semester credits and 60 quality points, in the College of Liberal Arts of this University or of an approved college are necessary for admission to the School of Law. Credit earned in non-theory courses covering military science, hygiene, domestic arts, physical education, vocal or instrumental music, or in other courses without intellectual content of substantial value may not be counted toward the pre-legal program. Also courses taken by correspondence or in extension may not be counted toward this program. Students who take the preliminary years in this University may conform to the regular requirements for freshmen and sophomores and take such additional courses as may be suggested by the adviser to pre-legal students.

Pre-Medical Program

A three-year program preparing for the study of medicine is offered under the direction of the Department of Biology. This course follows the requirements of the American Medical Association and Association of American Medical Colleges for entrance to all class A medical schools, except those requiring a degree for entrance.

Valparaiso University is on the list of "Approved Colleges of Arts and Sciences compiled by the Council on Medical Education and Hospitals of the American Medical Association."

Preparation for Dentistry

Two programs are followed by schools of dentistry, namely, the one-four program and the two-four program. The former requires one year and the latter two years of pre-dental work in the College of Liberal Arts, followed by four years in a school of dentistry. A rapidly increasing number of dental schools are adopting the two-four program and thus require sixty to sixty-four credit hours of pre-dental work.

Combined Programs

Liberal Arts—Medicine

Students may do the entire work of their senior year in approved schools of *medicine*, and receive the degree of Bachelor of Arts from this University under the following conditions:

(1) The junior year is to be completed in the College of Liberal Arts at this University. (2) The program selected and the school in which the work is to be completed must be recorded with the Registrar upon a blank furnished by him on or before May 1. (3) All prescribed subjects in preparation for work at other schools, inclusive of any group requirements of this University, must be met before the student enters the professional school. Pre-medical students will meet the group requirements of their special program. (4) All requirements regarding the major subjects are to be satisfied before the bachelor's degree is granted. (5) An application for graduation must be made and the usual graduation fee paid.

An official transcript of the year's work (thirty semester hours or its equivalent), must be sent to the Registrar at the close of the year. Upon receipt of such transcript the degree of Bachelor of Arts may be granted as if the work had been completed in residence in this University.

Six Year Combined Liberal Arts-Law Program

A student may obtain in six years both the Bachelor of Arts and the Bachelor of Laws degrees. The program requires the completion of three full years of academic work in any department of the College of Liberal Arts before the course in the School of Law is begun.

More specifically, the student who elects this program must meet the following requirements: He must spend his junior year in residence at Valparaiso University; he must meet the degree requirements of the College of Liberal Arts for the lower division, and must satisfy the requirement in religion in the upper division; he must complete one major and offer a total of at least 94 semester credits and 94 quality points in the College of Liberal Arts. In his first year in the School of Law he must complete at least 28 semester credits and 28 quality points. Thus, he will present for the degree of Bachelor of Arts a total of at least 122 semester credits and 122 quality points. He may then complete the requirements for the degree of Bachelor of Laws by two years of additional work in the School of Law.

The entrance requirements for this program are those of the College of Liberal Arts. The A.B. degree is granted upon the joint recommendation of the faculty of the College of Liberal Arts, and the School of Law, the LL.B. degree upon the recommendation of the faculty of the School of Law at the end of the third year of law.

Course Prerequisites

All students are expected to meet the prerequisites for all courses as published. Prerequisites may be waived only in event a petition to the Committee on Admissions and Degrees has been approved prior to the registration of the student in the course.

The Department of Biology

Professor Elliott [Head], Assistant Professor Kaufmann,
Mr. Christiansen, Miss Neff

Aim

The work in this department is designed to: (a) develop in the student a general knowledge and cultural appreciation of the animal and plant life with which he almost daily comes in contact; (b) establish a biological foundation for practical work in agriculture, forestry, horticulture, biological survey, entomology, and other related fields; (c) provide the necessary training for teachers of biology, botany, zoology, physiology and hygiene; (d) give essential preparation to students who wish to enter the fields of medicine, dentistry, nursing, health education, and pharmacy; and (e) prepare students for graduate and research work in biology, botany, and zoology.

The location of the University in the lakes and dunes region of north-western Indiana makes available a great variety of native plants and animals characteristic of lakes and streams, sand dunes, open prairie, and forest. The nearness to Chicago affords opportunity for field observation and study at such places as the Field Museum of Natural History, the Shedd Aquarium, the Lincoln Park and Riverside Park Zoological Gardens, the Washington Park Botanical Garden and numerous hospitals and clinics.

Biology Club

Students majoring in biology or registered on the pre-medical, pre-dental, or pre-nursing programs are eligible for membership in the Biology Club. The purpose of the Biology Club is to promote interest in and acquaintance with the advances in the biological sciences. Members of the organization are given an opportunity to cultivate the ability to organize and present scientific materials on the student programs. Frequent addresses by doctors, dentists, and other specialists in the biological field are given throughout the year.

Combined Programs

Professor Elliott, Adviser

Liberal Arts—Medicine

The pre-medical program outlined below enables the student: (1) to meet the requirements of the approved medical schools; (2) to gain a knowledge of the basic sciences and those subjects which are the foundation of the medical sciences; (3) to possess a liberal culture by a study of the humanities which are recommended by the American Medical Association and medical schools as desirable electives; and (4) to meet the requirements for the degree of Bachelor of Arts. For details see Combined Programs, Liberal Arts-Professional Courses.

Deviations will be made in the third year when necessary to meet the special additional requirements of the different medical schools. The student is therefore urged to consult his adviser concerning these requirements not later than the first semester of the sophomore year.

Prior to admission to an approved school of medicine the student must take the aptitude test prescribed by the Association of American Medical Colleges. A fee of one dollar must be paid at the time the student takes the test. This fee will be forwarded with the examination to the committee of the association in charge of the test.

The mere completion of the work of the pre-medical program outlined does not guarantee admission to a medical school. The quality of the work done and the ability and fitness of the student for the work of the medical course will be important determining criteria in recommending applicants for admission to approved medical schools.

Freshman Year					
First Semester			Second Semester		
		Cr.			Cr.
Zool.	51. General Zoology	4	Zool.	52. General Zoology	4
Chem.	51. General Chemistry	4	Chem.	52. Inorg. Chemistry	4
Eng.	1. Freshman Composition	3	Eng.	2. Freshman Composition	3
Rel.	1. The Bible	3	Rel.	2. Jesus and His	
	German or French	3		Teachings	3
				German or French	3
		17			17

Sophomore Year							
First Semester			Second Semester				
		Cr.			Cr.		
Zool.	115.	Anatomy and Physiology -----	5	Zool.	120.	Histology, Microtechnique and Methods--	4
Chem.	101.	Organic Chemistry----	5	Chem.	102.	Organic Chemistry----	4
Phys.	51.	General Physics -----	4	Phys.	52.	General Physics -----	4
		German or French----	3			German or French-----	3
			17	Chem.	62.	Qualitative Analysis --	2
							17

Junior Year					
First Semester			Second Semester		
		Cr.			Cr.
Zool.	105. Vertebrate Anatomy	4	Zool.	110. Vertebrate Embryology	4
Chem.	109. Quantitative Analysis,		Bot.	140. Bacteriology	4
	Volumetric	4	Sociol.	52. Introduction to the	
Sociol.	51. Introduction to the			Study of Human	
	Study of Human			Society	3
	Society	3	Rel.	151. **The Church and	
Psy.	51. General Psychology	3		Her Work	2
	*Elective	1 or 2		*Elective	3 or 4
15 or 16			16 or 17		

*If no additional specific requirements are demanded by the medical school to which application is to be made, the student is urged to select in his third year courses from the following subjects recommended as desirable electives: English (additional), economics, history, political science and mathematics.

**For Lutheran students.

Liberal Arts—Nursing

The College of Liberal Arts of Valparaiso University grants the degree of Bachelor of Arts to students who successfully complete three years of work in that College and twenty-seven months in an approved School of Nursing. The following specific requirements must be met: (a) The courses of the pre-medical program, except Chemistry 102 and 109 and Physics 51 and 52. (b) Electives, including Survey of English Literature, to make a total of ninety-four credit hours.

Preparation for Dentistry

In compliance with the recommendation of the Survey Committee of the American Association of Dental Schools, approved by the Association in March, 1935, practically all schools of dentistry now require two years of pre-dental work.

The first two years of the pre-medical program as outlined meet the requirements of most dental schools. In view of the many individual differences in the entrance requirements of the various dental schools, however, the pre-dental student should have his program approved by the pre-dental adviser not later than the beginning of the sophomore year.

Majors*Major in Biology:*

A major in biology consists of at least 24 credit hours and must include Botany and Zoology 51 and 52 and Zoology 120. Zoology 115 is also recommended. Students planning to do graduate work in either Botany or Zoology should take the additional work necessary for admission to the graduate school.

Major in Zoology:

A major in zoology consists of at least twenty-four credit hours, and must include Zoology 51, 52, 105, and 115.

Minors*Minor in Biology:*

A minor in biology consists of sixteen credit hours and must include Botany 51 and 52 and Zoology 51 and 52.

Minor in Botany:

A minor in botany consists of sixteen credit hours and must include Botany 51 and 52.

Minor in Zoology:

A minor in zoology consists of sixteen credit hours and must include Zoology 51 and 52.

Approval of Schedules

All students taking a major or a minor in the department and all students planning to teach biological subjects must have their schedules approved by the head of the department at the beginning of each semester.

Courses in Health Education**1. INDIVIDUAL HEALTH PROGRAM FOR MEN AND WOMEN. Sem. 1. 1+0, Cr. 0.**

Includes the study of the fundamentals of personal and public health. The aim of the course is to implant habits of health and clean living and to create a wholesome attitude toward individual, family, and school. Class hours or conference periods for the discussion of health reports, charts, correction or remedial defects, absences due to illness, healthful mental growth, and healthful development of the emotional and social life of the individual.

Demonstration fee, 50 cents.

Two sections for women: Neff
Two sections for men: Christiansen

2. INDIVIDUAL HEALTH PROGRAM FOR MEN AND WOMEN. Sem. 2. 1+0, Cr. 0.

A continuation of Course 1.
Demonstration fee, 50 cents.

Two sections for women: Neff
Two sections for men: Christiansen

Courses in Botany

51. GENERAL BOTANY. Sem. 1. 2+4, Cr. 4.
A preliminary study of the principal trees and shrubs, together with a general study of the cell, root, stem, and leaf. Lectures and discussions will also deal with general botanical topics and principles.
Laboratory fee, \$5.00; deposit, \$1.00. Kaufmann
52. GENERAL BOTANY. Sem. 2. 2+4, Cr. 4.
A survey of the plant groups including laboratory study of representative forms with emphasis upon their structure and development. Also field and laboratory study of the spring flora.
No prerequisite.
Laboratory fee, \$5.00; deposit, \$1.00. Kaufmann
80. LOCAL FLORA. Sem. 2. 1+2, Cr. 2.
The aim of this course is to acquaint the student with our native trees, shrubs, and flowers in order to develop a first-hand knowledge and deeper appreciation of nature. Particularly for teachers of biology and nature study.
Laboratory fee, \$2.00; deposit, \$1.00. Kaufmann
120. PLANT HISTOLOGY, MICROTECHNIQUE, AND METHODS. Sem. 2. 2+4, Cr. 4.
For a description of this course and prerequisites see Zoology 120.
Laboratory fee, \$5.00; deposit, \$1.00. Elliott
140. BACTERIOLOGY. Sem. 2 2+4, Cr. 4.
A course in general bacteriology, embodying a study of the nature and botanical relationship of bacteria and other micro-organisms; their relation to decomposition, food preservation, and disease.
Prerequisite: Eight credit hours in botany, zoology, or chemistry.
Laboratory fee, \$5.00; deposit, \$1.00. Kaufmann

Courses in Zoology

51. GENERAL ZOOLOGY. Sem. 1. 2+4, Cr. 4.
A study of the structure, composition, and activities of protoplasm, followed by a survey of the invertebrate animals. Lectures and discussions on the habitats, structure, and economic relations of members of the various groups. Laboratory and field study of representative forms.
Laboratory fee, \$5.00; deposit, \$1.00. Elliott
52. GENERAL ZOOLOGY. Sem. 2. 2+4, Cr. 4.
A survey of the vertebrate groups of animals, with emphasis on morphology, life history, habits, distribution, and economic importance. Laboratory study of representative forms; study of birds during their migration period; field observation and collection trips will be made to adjacent regions.
No prerequisite.
Laboratory fee, \$5.00; deposit, \$1.00. Elliott
75. ELEMENTARY PHYSIOLOGY. Sem. 1. 3+3, Cr. 4.
This course is especially designed to meet the needs of the students in pharmacy. Not credited toward a major.
Laboratory fee, \$3.00; deposit, \$1.00. Kaufmann
105. VERTEBRATE ANATOMY. Sem. 1. 2+4, Cr. 4.
A comparative study of morphology of vertebrate animals. Lectures, discussions, collateral readings, and laboratory dissection of the principal types, especially shark, necturus, turtle, and cat.
Prerequisite: Zoology 51 and 52.
Laboratory fee, \$5.00; deposit, \$1.00. Elliott
110. VERTEBRATE EMBRYOLOGY. Sem. 2. 2+4, Cr. 4.
Lectures and discussions on the embryology of vertebrates in general, with special emphasis on that of birds and mammals. Laboratory work deals with chick and pig.
Prerequisite: Zoology 51 and 52.
Laboratory fee, \$5.00; deposit, \$1.00. Elliott
115. ANATOMY AND PHYSIOLOGY. Sem. 1. 3+4, Cr. 5.
This course deals with the fundamentals of anatomy and physiology particularly of the human body. Laboratory work dealing with the physiology of contractile tissues, circulation, respiration, digestion, nervous system, and sense organs.
Prerequisite: Zoology 51 and 52.
Laboratory fee, \$5.00; deposit, \$1.00. Elliott
120. HISTOLOGY, MICROTECHNIQUE, AND METHODS. Sem. 2. 2+4, Cr. 4.
A course in the preparation of zoological and botanical slides by the paraffin, celloidin, freezing, venetian turpentine, and glycerine methods, together with some study of tissues. Zoology students will emphasize preparation of slides of frog and mammalian tissues; botany students, slides of ferns and seed plants. Majors and prospective teachers in biology will be given instruction in the preparation of a teaching set of slides. Students preparing for medicine, dentistry, and nursing will in addition be given instruction in special technique.
Prerequisite: Botany or Zoology 51 and 52.
Laboratory fee, \$5.00; deposit, \$1.00. Elliott

155. PUBLIC HEALTH. Sem. 1. 3+0, Cr. 3.

A course dealing with such topics as public health agencies and organizations, causes of disease, nature and control of communicable diseases, vital statistics, nostrums, and biologic products.

Prerequisite: Botany 140.

Demonstration fee, \$1.00.

Kaufmann

191. THE TEACHING OF BIOLOGY. Sem. 1. 2+0, Cr. 2.

The aims and methods of teaching biology, botany and zoology in the secondary schools.

Prerequisite: Ten credits in botany or zoology.

Demonstration fee, \$1.00.

Elliott

196-197. BIOLOGICAL PROBLEM: Either Sem., Cr. 1-3.

Special problems, under the direction of members of the department, for junior and senior students majoring in biology or zoology.

Prerequisite: Sixteen credits in biology or zoology.

Laboratory fee, \$1.00 per credit hour; deposit, \$1.00.

Elliott

The Department of Business Management and Economics

Assistant Professor Ziebarth [Head], Mr. Goehring,
Mr. Zimmerman

Aims

The aims of this department are: (1) to give its students an introduction to the economic problems of the present social order; (2) to train them in the fundamentals of business; (3) to give them training for advanced work in business and economics in graduate schools; and (4) to train teachers of commercial subjects.

Positions

The department does not assume responsibility for securing positions for its graduates, but it does extend all possible aid to place them.

Commerce Club

The Commerce Club is an organization of students in the Department of Business Management and Economics.

The club aims to act as a correlating medium between the theory of the classroom and the practice of the business world, and to bring its members into closer contact with one another.

It seeks to realize these aims by securing as speakers at its meetings outstanding men in the business world, and by making inspection trips into the surrounding industrial regions.

All major and minor students in the departments are expected to become members.

Major

A major consists of not less than twenty-four and not more than thirty-six credit hours beyond Business Management 3, 4, 5, 6, 41 and 42.

Students taking a twenty-four-hour major may count three hours of geography toward that major; students taking a thirty-six-hour major may count six hours of geography toward that major. Students are urged to take at least one course in geography. Three credit hours of Factory Management, offered in the College of Engineering, may also be counted toward a major in the department.

Students having a major in business management in view must earn: (a) in their freshman year, six credits in accounting (Business Management 41, 42); (b) in their sophomore year, six credits in economics (Economics 51, 52) and six credits in Business Management 51, and 52 or 102. In the freshman year, Business Management 41, 42 is substituted for foreign language, social science, or natural science. The required work in these fields is therefore postponed until the sophomore year.

Students should also earn two credits in typewriting (Business Management 3, 4).

Minor

A minor consists of twelve credit hours beyond Business Management 3, 4, 5, 6, 41, 42, and Economics 51, 52.

Approval of Schedules

All students taking a major or a minor in the department and all students planning to teach commercial subjects must have their schedules approved by the head of the department at the beginning of each semester.

Students who are interested in a one-year course in business are advised to take Accounting Principles, Principles of Economics, Freshman Composition, a natural science, typewriting, stenography, and Individual Health Program. If such students decide to continue their college work, they will receive full credit for the work completed in the freshman year, but must fulfill the remaining degree requirements of the University.

Chemistry—Commerce

Students who desire to become business managers, purchasing agents and technical secretaries in chemical industry require a knowledge of business management and chemistry. The major in chemistry—commerce includes twenty-four credit hours in business management and economics and twenty-four credit hours in chemistry.

Commercial Engineering

The curriculum in Commercial Engineering is described in the section of this catalog which is devoted to the College of Engineering.

Courses in Business Management

41. **ACCOUNTING PRINCIPLES.** Sem. 1. 2+2, Cr. 3.
A course developing and giving practical application of the fundamental principles of accounting to the single proprietorship type of business enterprise.
Open to freshmen who have had less than two years of bookkeeping in high school. Ziebarth
42. **ACCOUNTING PRINCIPLES.** Sem. 2. 2+2, Cr. 3.
The principles of accounting are applied to the partnership and corporate forms of organization.
Prerequisite: Business Management 41 or the equivalent. Ziebarth
51. **INTERMEDIATE ACCOUNTING.** Sem. 1. Cr. 3.
The purpose of this course is: (1) to review the making and analyzing of statements, and (2) to study the valuation and classification of various assets and liabilities.
Prerequisite: Business Management 42. Goehring
52. **COST ACCOUNTING.** Sem. 2. 2+2, Cr. 3.
This course includes a simplified presentation of "job order" and "process" cost accounting. The latter part of the course introduces the student to standards costs and a comparison of budgetary and actual costs as applied to the profit and loss statement.
Prerequisite: Nine credits in accounting.
Alternates with Business Management 102. Ziebarth
102. **PRINCIPLES OF AUDITING.** Sem. 2. Cr. 3.
This course deals with the application of accounting theory and practice to the procedure followed in performing the various steps in balance-sheet, detailed, and special audits.
Prerequisite: Nine credits in accounting.
Alternates with Business Management 52.
[Not offered 1937-1938.] Ziebarth
105. **BUSINESS FINANCE.** Sem. 1. Cr. 3.
This course deals with the administrative and managerial problems of promoting and financing business concerns and reviews the recent security exchange legislation.
Prerequisite: Economics 52 and Business Management 42. Goehring
107. **STATISTICS.** Sem. 1. 2+2, Cr. 3.
This course considers the elementary principles of the statistical method and the application of the principles of statistics to business and economic problems. The laboratory material consists of exercises and problems.
Prerequisite: Business Management 42 and Economics 52.
Alternates with Economics 141.
[Not offered 1937-1938.] Ziebarth

121. PRINCIPLES OF MARKETING. Sem. 1. Cr. 3.

A study of market functions, structures, institutions, trade channels, middlemen, commodity exchanges, wholesale stores, retail stores, chain stores, department stores, mail order houses, co-operatives, marketing methods, market forces, speculation, price policies, market analysis, and the coordination of marketing policies.

Prerequisite: Economics 52 and Business Management 42.

Goehring

122. MARKET ADMINISTRATION. Sem. 2. Cr. 3.

A study of sales organizations, the management of sales forces, selling methods, market analysis, market research, formation of policies, the ethics of salesmanship, and a survey of the literature on selling and purchasing.

Prerequisite: Business Management 121.

Goehring

131. BUSINESS LAW. Sem. 1. Cr. 3.

A study of the basic legal principles of business transactions, including the law of contracts, sales, negotiable instruments, agency, partnerships, corporations, and real property.

Prerequisite: Sophomore standing.

Ziebarth

132. BUSINESS LAW. Sem. 2. Cr. 3.

Continuation of Business Management 131.

Prerequisite: Business Management 131, or the equivalent.

Ziebarth

152. BUSINESS ORGANIZATION AND MANAGEMENT. Sem. 2. Cr. 3.

A correlation of the subject matter of the other courses offered in the department. The application of the principles of business to specific problems in office management, financing, risk-bearing, selling, purchasing, and internal control, with emphasis upon organization, personnel, and traffic.

Prerequisite: Junior standing.

Ziebarth

162. SPECULATION AND INVESTMENTS. Sem. 2. Cr. 3.

A general survey of the organization of commodity and security exchanges; the technique of buying and selling; the general principles of investment; the classification of securities; the function of the investment banker; the sources of information; the methods of reducing and shifting the risk; and recent legislation.

Prerequisite: Business Management 105.

Alternates with Economics 146.

[Not offered 1937-1938.]

Goehring

191. THE TEACHING OF COMMERCIAL SUBJECTS. Cr. 2.

A survey of problems in the field of business education for teachers, also the methods which may be used in teaching the various commercial subjects.

Prerequisite: Senior standing in business management and education.

Given upon demand.

Staff

199. SEMINAR. Cr. 1-3.

Each student, with the advice of the instructor, will choose a topic for intensive study.

Open to senior students with not less than B standing.

Ziebarth and Goehring

Courses in Secretarial Work

Mr. Zimmerman

3. BEGINNING TYPEWRITING. Each semester. 0+10, Cr. 1.

This course is open to all students in the University.

Typewriting fee, \$4.50.

Zimmerman

4. ADVANCED TYPEWRITING. Each semester. 0+10, Cr. 1.

Continuation of course 3. Credit withheld until a 35-words-per-minute test has been passed.

Typewriting fee, \$4.50.

Zimmerman

5. BEGINNING STENOGRAPHY. Sem. 1. 0+5, Cr. 1.

Thorough study and practice of Gregg Shorthand. Open to all students.

Zimmerman

6. ADVANCED STENOGRAPHY AND SECRETARIAL TRAINING. Each Semester. 0+5, Cr. 2.

An advanced course which emphasizes the development of speed, phrasing, transcribing, business English, and the general duties of a private secretary. This course is correlated with advanced typewriting.

Zimmerman

Courses in Economics

Mr. Goehring

51. PRINCIPLES OF ECONOMICS. (Two sections). Sem. 1. Cr. 3.

A study of the fundamental concepts, the institutional arrangements, and the general principles governing the production and distribution of wealth and income under the existing economic organization and under other economic systems.

Not open to freshmen in Business Management unless they have had either a course in economics or one year of bookkeeping in high school or some other institution.

Goehring

52. PRINCIPLES OF ECONOMICS. (Two sections). Sem. 2. Cr. 3.

A continuation of Economics 51.

Prerequisite: Economics 51.

Goehring

141. LABOR PROBLEMS. Sem. 1. Cr. 3.

A survey course dealing with: (1) the history of labor and the main forces underlying the labor problem; (2) the approach of workers and employers to the labor problem; (3) the development of trade unions and collective bargaining; and (4) social control.

Prerequisite: Economics 52.

Alternates with Business Management 107.

Ziebarth

143. BUSINESS AND GOVERNMENT. Sem. 1. Cr. 3.

A survey of government regulation of public and private business; the regulation of competition and monopoly; the regulation of public utilities; the principles of valuation and rate-making; recent legislation and proposals for increased governmental ownership and control of business; public activities of business organizations; cooperation between government and business; and elements of a sound national policy towards business.

Prerequisite: Economics 52 and junior standing.

Ziebarth

146. ECONOMIC HISTORY OF THE UNITED STATES. Sem. 2. Cr. 3.

A general survey of the leading facts pertaining to the discovery and colonization of America; the economic background of the Revolution; the formation of the Federal Government; the development of agriculture, industry, and commerce; the economic background of the Civil War; population, public lands, public finance, tariff, railroads, banking, labor organizations, the rise of Big Business, the World War, and economic reconstruction.

Prerequisite: Economics 52.

Alternates with Business Management 162.

Goehring

152. MONEY AND BANKING. Sem. 2. Cr. 3.

A survey of the theories and principles of money and banking; the monetary standards; the Federal Reserve System; the principles of foreign exchange; and the relation of the medium of exchange to the processes by which changes in price levels and business conditions are brought about.

Prerequisites: Economics 52 and Business Management 42.

Goehring

The Department of Chemistry

Associate Professor Thrun [Head], Associate Professor Harwood, Mr. Lien

Aims

The work of this department is arranged to meet the needs of students who are preparing (a) to enter the chemical profession or take up graduate studies in chemistry; (b) to become physicians, pharmacists, dentists, or chemical engineers; (c) to teach chemistry.

Chemistry Club

The Chemistry Club of Valparaiso University was organized November 16, 1932, to stimulate interest in the chemical science, to further an appreciation of research, to elevate the standard of scholarship, and to inculcate the ideals of cooperation among the students. The club is a member of the Students' Science Clubs of America.

The monthly meetings are conducted as much as possible like the section meetings of the American Chemical Society. Usually a chemist from an industry or another institution presents a paper of general interest.

All students are invited to these meetings. Associate membership is limited to those who have four credits with a grade of C in a chemistry course. Full membership and the right to wear a key is open to the student who has earned 14 credits in chemistry with a grade of A or B or upon earning 8 credits in

second year chemistry with an average grade of A or B. To retain full membership an average grade of A or B in chemistry courses must be maintained.

Chemical Engineering

For the two-year curriculum in chemical engineering, see the College of Engineering.

Chemistry—Commerce

Men who plan to become business managers, purchasing agents, or technical secretaries in chemical industry require a knowledge of business management and chemistry. The major in chemistry-commerce includes twenty-four credit hours in business management and economics and twenty-four credit hours in chemistry.

Majors

Two majors are provided for. To complete the requirements for the professional major 32 credits in chemistry and credits for one year each of mathematics and physics should be earned.

The major of 24 credits should include Qualitative Analysis, at least one semester of Organic Chemistry, and Volumetric Analysis. Bacteriology may be counted toward this major in chemistry.

Minors

A minor consists of 14 credits. In addition to Qualitative Analysis either Organic Chemistry or Volumetric Analysis should be elected.

Approval of Schedules

All students taking a major or a minor in the department and all students planning to teach chemistry must have their schedules approved by the head of the department at the beginning of each semester.

Courses in Chemistry

51. GENERAL CHEMISTRY. Sem. 1. 3+2, Cr. 4.
Fundamental concepts, laws, and theories are studied by means of lectures, oral quizzes, and experiments. Those having little or no high school training in chemistry attend an extra period.
Laboratory fee, \$6.00; deposit, \$4.00. Three quiz sections: Thrun
52. INORGANIC CHEMISTRY. Sem. 2. 3+2, Cr. 4.
A continuation of Chemistry 51. The properties of the atoms are studied in the light of the most recent knowledge. Important chemical reactions and the principles of qualitative analysis are discussed. The importance of chemistry in our civilization is discussed, as the occasion warrants.
Laboratory fee, \$6.00; deposit, \$4.00. Three quiz sections: Thrun
54. INORGANIC CHEMISTRY. Sem. 2. 3+0, Cr. 3.
The same as 52, but no laboratory work is included. Usually accompanied by a course in Qualitative Analysis.
Prerequisite: Chemistry 51. Thrun
56. INORGANIC CHEMISTRY. Sem. 2. 3+3, Cr. 4.
The same as 52, with three hours of laboratory work in Qualitative Analysis.
Laboratory fee, \$6.00; deposit, \$4.00.
60. QUALITATIVE ANALYSIS. Sem. 2. 0+9, Cr. 3.
Study of separation and identification of all important cations and anions. To accompany Chemistry 54.
Prerequisite: Chemistry 51.
Laboratory fee, \$10.00; deposit, \$4.00. Lien
62. QUALITATIVE ANALYSIS. Sem. 2. 0+6, Cr. 2.
Study of separation and identification of all important cations and anions.
Prerequisite: Chemistry 51.
Laboratory fee, \$6.00; deposit, \$4.00. Lien
101. ORGANIC CHEMISTRY. Sem. 1. 3+6, Cr. 5.
A study of the aliphatic carbon compounds is made.
Prerequisite: Chemistry 52.
Laboratory fee, \$7.50; deposit, \$4.00. Harwood
102. ORGANIC CHEMISTRY. Sem. 2. 2+6, Cr. 4.
Continuation of Chemistry 101. Aromatic compounds are studied.
Laboratory fee, \$6.00; deposit, \$4.00. Harwood

109. **QUANTITATIVE ANALYSIS, VOLUMETRIC.** Sem. 1. 2+6, Cr. 4.
Discussion, problems, and laboratory work comprising the following: Analytical weighing and calibration of weights and measuring vessels; normality and titre of standard solutions; pH, activity coefficients, indicators, buffers; volumetric precipitation methods; oxidation and reduction methods and indicators; principles of colorimetric analysis; one simple gravimetric procedure.
Prerequisite: Qualitative Analysis.
Laboratory fee, \$6.00; deposit, \$4.00. Thrun
110. **QUANTITATIVE ANALYSIS, GRAVIMETRIC.** Sem. 2. 1+6 or 9, Cr. 3 or 4.
Problems of gravimetric analysis and solubility product; purity of precipitates. Inorganic samples are analyzed. One electrolytic analysis is performed.
Prerequisite: Qualitative Analysis.
Laboratory fee, \$6.00; deposit, \$4.00. Thrun
138. **BIO-CHEMISTRY.** Sem. 2. 2+3, Cr. 3.
The chemistry of proteins, carbohydrates, and fats, and the changes these undergo during processes of digestion and metabolism; brief consideration of enzymes and vitamins. Special emphasis is placed upon the application of colloid chemistry to problems in bio-chemistry.
Prerequisite: Chemistry 101 and 109.
Laboratory fee, \$7.50; deposit, \$4.00. Thrun
157. **INDUSTRIAL CHEMISTRY.** Sem. 1. 2+0, Cr. 2.
The chief chemical industries are studied.
Prerequisite: Chemistry 102 and 109.
[Not offered 1937-1938.]
164. **HISTORY OF PHARMACY AND CHEMISTRY.** Sem. 2. 2+0, Cr. 2.
A study of the development of the pharmacy and chemistry of the principal countries of Europe and the United States.
[Offered 1936-1937 and alternate years thereafter.] Harwood
170. **SPECIAL PROBLEMS IN CHEMISTRY.** Either semester. Cr. 2 to 5.
A course for seniors in chemistry. Each student attacks an elementary research problem, first by study of the literature in Chemical Abstracts and other sources, then by work in the laboratory. A written report is required.
Laboratory fee to be determined by the department. Thrun and Harwood
181. **ELEMENTARY PHYSICAL AND THEORETICAL CHEMISTRY.** Sem. 1. 3+0, Cr. 3.
The most essential theories and principles underlying the science of chemistry, such as chemical equilibria, velocity of reactions, and the elements of thermodynamics and entropy are studied.
Prerequisite: Physics 52. Permission of instructor required before electing the course.
Alternates with Chemistry 157.
[Not offered 1937-1938.]
191. **THE TEACHING OF CHEMISTRY.** Cr. 2.
A teacher's course. The subject matter of the high school course with methods of presentation, including laboratory demonstrations and reference reading. Problems relating to laboratory construction and equipment; standard tests.
Prerequisite: Chemistry 101.
[Given on demand.]

The Department of Education and Psychology

Assistant Professor Lindberg [Head], Mr. Julian

Purpose

Work in this department is integrated toward the following purposes:

1. To stimulate the ideal of Christian culture and service in the field of Education.
2. To meet the professional needs of the students preparing to teach in the secondary schools.
3. To qualify students for a Bachelor of Arts degree with a minor in Education.

Accreditation

The College of Liberal Arts is approved by the State Board of Education of Indiana as a class "A" standard college for teacher training. The College

of Liberal Arts offers the following teacher training curricula: (1) four-year curricula leading to regular high school teachers' licenses in English, French, German, mathematics, social studies, science, music, and commerce; (2) four-year curricula leading to special high school teachers' licenses in commerce and music.

All professional courses in educational methods listed by other departments in the College of Liberal Arts are given under the supervision of the Department of Education and Psychology.

Courses taken in the College of Liberal Arts may also be used in obtaining teachers' certificates in other states subject to the individual certification requirements of those states.

All students who expect to teach should consult with the head of this department concerning adjustments in programs of study to meet individual state certification requirements. Copies of the current certification requirements of all states are on file in the office of this department.

Supervised Teaching

Arrangements are maintained with the Board of Education of the Valparaiso Public Schools for supervised teaching in its high school. Similar arrangements are also made with selected county schools when the need arises.

The general supervision of practice teaching is assumed by the Director of Supervised Teaching, but the class work is under the direct supervision of critic teachers. Student teachers are, after a period of directed observation, placed in immediate charge of classes and are responsible for the successful progress of the work. This work, as a rule, includes the responsibility for instruction, management, and grading of the class.

Applicants for certificates desiring to enroll in this course must have a grade point average of at least 1.5 in the major in which supervised teaching is to be done and also in all education and psychology courses taken prior to supervised teaching. Before students enroll for supervised teaching in a high school subject they should have completed at least fifteen semester hours of credit in that subject, and, in addition, be recommended by the head of the department in charge of the subject to be taught. Students must make application to enroll for supervised teaching on forms which will be furnished by the Department of Education and Psychology. A laboratory fee is charged for this course.

Organization of Curricula

Courses 51 and 62 or 64 may be used to satisfy one of the social science requirements of the lower division of the College of Liberal Arts. It is necessary to secure the approval of the Head of the Department of Education to enroll in courses numbered 100 and above.

The mere completion of the prescribed courses outlined in the Department of Education does not guarantee that the student will be recommended for a teaching certificate. The quality of the work done, and the ability and personality of the student for the teaching profession will be important determining criteria in recommending applicants for teaching certificates.

Minor

A minor consists of twelve credits.

Approval of Schedules

All students planning to teach and all students taking a minor in the department must have their schedules approved by the head of the department at the beginning of each semester.

Courses in Secondary Education

Mr. Lindberg

62. PUBLIC EDUCATION. Sem. 2. Cr. 3.

An introduction to education offering a full view of the American system of education with special emphasis upon the opportunities and responsibilities of educational workers. A required course for students in education.

64. (Old Number 114). HISTORY OF EDUCATION. Sem. 2. Cr. 3.
A survey of the development of educational theory and practice, beginning with the Greek and Roman periods, with the chief emphasis on the eighteenth and nineteenth century forces which have resulted in the creation of our modern American public school system.
118. SECONDARY EDUCATION. Sem. 2. Cr. 3.
A course dealing with the purposes of the American secondary school and the ways and means by which those purposes are accomplished. Some of the topics treated are: American and European secondary education; problems in administrative and curricular reorganization; characteristics of adolescence; techniques of guidance; purposes governing the various extra-curricular activities of the school.
121. TESTS AND MEASUREMENTS. Sem. 1. Cr. 3.
An introductory course dealing with the following problems: Historical development of the testing movement; mental, achievement, prognostic, and diagnostic tests; organization of a testing program; statistical evaluation and interpretation of the results of testing; principles governing the construction of new-type informal objective examinations and practice in constructing them.
161. PRINCIPLES OF TEACHING IN THE SECONDARY SCHOOL. Sem. 1. Cr. 3.
A course dealing with the following general topics: the fundamental principles of teaching; a survey of important methods and types of teaching; problems of technique; class organization and management.
172. EDUCATIONAL SOCIOLOGY. Sem. 2. Cr. 2.
A theoretical and practical course which sets forth the school as a social institution for the advancement of group enterprises and the improvement of institutional efficiency. The social viewpoint is carried into the treatment of every phase of school work, including the determination of objectives, administrative policies, curriculum, discipline, and methods of instruction.
191. THE PROFESSIONAL ACADEMIC COURSE IN SECONDARY EDUCATION. Cr. 2.
This course is administered by the Department of Education. It is listed in the various departments of the College of Liberal Arts and applies to the following academic courses:
The Teaching of Biology.
The Teaching of Commercial Subjects.
The Teaching of Chemistry.
The Teaching of English.
The Teaching of French.
The Teaching of Geography.
The Teaching of German.
The Teaching of History and Social Studies.
The Teaching of Mathematics.
Elementary School Music Methods, 109-110.
High School Music Methods, 191-192.
The Teaching of Physics.
- 193-194. SUPERVISED TEACHING IN SECONDARY SCHOOL SUBJECTS. Each semester. Cr. 3-5.
Open only to seniors, except by special permission. The observation and practice work is done in the high school under the direction of a critic teacher and the director of supervised teaching. At least twenty class periods of observation, forty class periods of teaching, and regular conferences with the critic teacher and the director of student teaching are required for three hours credit.
Eligibility: See special paragraph on Supervised Teaching under the general statement.
Fee, \$7.00 per credit hour.

Courses in Psychology

Mr. Lindberg

51. GENERAL PSYCHOLOGY. Sem. 1. 2+2, Cr. 3.
This course is an introduction to the general field of psychology. Emphasis is placed upon the factors which are operative in man's efforts to adjust himself to his physical and social environment. The following main topics are considered: the nature of the human organism, the genesis and motivation of behavior, organized and disorganized responses, sensory discrimination, animal and human learning, thinking, levels of achievement, social behavior, and personality. Laboratory experimentation is planned to parallel the class discussions.
Laboratory fee, \$2.00; deposit, \$1.00.
101. (Old Number 53). EDUCATIONAL PSYCHOLOGY. Sem. 1. Cr. 3.
This course applies the principles of psychology to the problems of teaching and learning. Attention is constantly directed to the child as a developing social being that is highly capable of being controlled through proper motivation. Considerable emphasis is given to the study of experimental research dealing with the processes and products of learning.

102. **PSYCHOLOGY OF ADOLESCENCE.** Sem. 2. Cr. 3.

A careful study of the problems of growth, reaction, mentality, and personality in adolescence, together with some account of the applied aspects as exemplified in typical junior and senior high schools.

The Department of English Language and Literature

Professor Friedrich [Head], Mr. Place,
Mr. Umbach, Mr. Lambert

The primary aims of this department are: (1) to teach students to communicate their thoughts and emotions in speech and writing with clearness, correctness, and feeling; (2) to help them understand and enjoy the major works of English and American literature; (3) to acquaint them with the materials and methods of the history of literature.

Major

Twenty-four credit hours of English beyond English 52 are required of students taking a major in this department.

Minor

Thirteen credit hours of English beyond English 52 are required of students taking a minor in this department.

Approval of Schedules

All students taking a major or a minor in the department and all students planning to teach English must have their schedules approved by the head of the department at the beginning of each semester.

Dramatics and Debate

The University Players and the debate squads are under the supervision of this department. Students majoring in English, especially those planning to teach in secondary schools, are urged to participate in the activities of these organizations.

Courses0. **GRAMMAR.** Sem. 1. Cr. 0.

All students entering the University as freshmen are required to take an examination in grammar, spelling, and usage. Those who fail to pass must take this course for two hours each week in addition to English 1.

Lambert

1. **FRESHMAN COMPOSITION.** Each semester. Cr. 3.

A course in the fundamentals of composition with emphasis upon expository writing. Collateral reading.

Friedrich, Place, Umbach, Lambert

2. **FRESHMAN COMPOSITION.** Each semester. Cr. 3.

A continuation of English 1.

Friedrich, Place, Umbach, Lambert

51. **SURVEY OF ENGLISH LITERATURE.** Sem. 1. Cr. 3.

A survey of literature from the Old English Period to the beginning of the Pre-Romantic Period. Frequent written exercises.

Friedrich, Place, Umbach

52. **SURVEY OF ENGLISH LITERATURE.** Sem. 2. Cr. 3.

A survey of literature from the beginning of the Pre-Romantic Period to the twentieth century. Frequent written exercises.

Friedrich, Place, Umbach

71. **NEWS WRITING AND REPORTING.** Sem. 2. 2+2, Cr. 3.

A course in the fundamentals of journalism, Newspaper organization and methods; principles of gathering and writing news; laboratory practice in writing for *The Torch*. This course may not be counted toward a major in English.

Prerequisite: English 1, 2.

Lambert

72. **ADVANCED NEWS WRITING.** Sem. 2. 2+2, Cr. 3.

A continuation of English 71. This course may not be counted toward a major in English.

Prerequisite: English 71.

Lambert

81. **PUBLIC SPEAKING.** Sem. 1. Cr. 2.
Study of speech composition; constant practice in speaking.
Prerequisite: English 1, 2. Place
82. **ADVANCED PUBLIC SPEAKING.** Sem. 2. Cr. 2.
Study of elements of persuasion; practice in speaking.
Prerequisite: English 81. Place
101. **AMERICAN LITERATURE.** Sem. 1. Cr. 3.
A survey of the prose, poetry, and drama of American literature from the beginning to the Civil War. Umbach
102. **AMERICAN LITERATURE.** Sem. 2. Cr. 3.
A continuation of English 101. A survey of the prose, poetry, and drama of American literature from the Civil War to the present day. Umbach
103. **DEVELOPMENT OF THE DRAMA.** Sem. 1. Cr. 3.
Classical origins of the drama; the religious origins in England; Elizabethan drama; Restoration drama; foreign influences on the English drama. Umbach
104. **MODERN DRAMA.** Sem. 2. Cr. 3.
Romantic closet drama; the Victorians; Ibsen and the new realism; contemporary drama, English, American, and Continental. Umbach
121. **ADVANCED COMPOSITION.** Sem. 1. Cr. 2.
Important forms of exposition in theory and in practice, with emphasis on essay writing. Umbach
122. **ADVANCED COMPOSITION.** Sem. 2. Cr. 2.
Important forms of description and narration in theory and in practice, with emphasis on short story writing. Umbach
151. **THE ROMANTIC MOVEMENT.** Sem. 1. Cr. 3.
A study of the poetry of Wordsworth, Coleridge, Byron, Shelley, Keats, and some minor poets. Some of the prose of the period will be considered incidentally. Friedrich
152. **VICTORIAN POETS.** Sem. 2. Cr. 3.
A study of the poetry of Browning, Tennyson, Arnold, Rossetti, Swinburne, and some minor poets. Friedrich
157. **THE NOVEL.** Cr. 3.
A study of representative English novels of the eighteenth and nineteenth centuries, with discussion of the social background.
[Not offered 1937-1938.]
158. **EIGHTEENTH-CENTURY LITERATURE.** Cr. 3.
A study of the literature of the Age of Pope and the Age of Johnson other than that of the drama and the novel.
[Not offered 1937-1938.]
161. **RENAISSANCE LITERATURE.** Sem. 1. Cr. 3.
A study of the prose and non-dramatic poetry of Renaissance England. Friedrich
162. **SHAKESPEARE.** Sem. 2. Cr. 3.
A careful study of about eight or ten of the most important plays, with more rapid reading of others. Friedrich
191. **THE TEACHING OF ENGLISH.** Sem. 1. Cr. 2.
A study of the methods of teaching English in secondary schools (See Education 191). This course may not be counted toward a major in English.
Prerequisite: 18 hours of English. Place

The Department of Foreign Languages and Literatures (French, German, Latin)

Associate Professor Miller [Head], Associate Professor Bauer,
Assistant Professor Guillaumant, Miss Rechenberg

The Department of Foreign Languages and Literatures has the following objectives: (1) for the lower division courses: to give the student primarily a reading knowledge of moderately difficult prose and poetry in the language chosen, to introduce him to the history of the civilization of the nation whose language he is studying, and to prepare him for the work of the upper division;

(2) for the upper division courses: to continue the work begun in the lower division, to present the literatures of the languages offered, and to prepare students for the teaching of foreign languages.

General Regulations

(1) Every student is required to complete for graduation at least six credits in foreign languages above the first-year level. This work is ordinarily taken in the freshman and sophomore years. (2) Only upper division courses may be applied on a major or a minor. (3) New students are given placement tests during freshman week to determine which courses they may enter.

Approval of Schedules

All students taking a major or a minor in the department and all students planning to teach French or German must have their schedules approved by the head of the department at the beginning of each semester.

French

Assistant Professor Guillaumant

Major

A major consists of not less than twenty-four credit hours. A prerequisite is French 54, or the equivalent. Students preparing to teach French must include French 113 and 114 in their major.

Minor

A minor consists of not less than twelve credit hours. A prerequisite is French 54, or the equivalent.

Courses in French

1. **FIRST SEMESTER FRENCH.** Sem. 1. Cr. 3.
Study of pronunciation by means of phonetic symbols. Grammar taught inductively, with conversation and dictation; daily written work.
2. **SECOND SEMESTER FRENCH.** Sem. 2. Cr. 3.
Study of grammar, with emphasis upon the verb; reading of simple texts.
Prerequisite: French 1, or one unit of high school French.
53. **THIRD SEMESTER FRENCH.** Sem. 1. Cr. 3.
Systematic review of grammar, with oral and written compositions. Study of irregular verbs. Reading of modern authors.
Prerequisite: French 2, or two units of high school French.
54. **FOURTH SEMESTER FRENCH.** Sem. 2. Cr. 3.
Continuation of French 53, with an introduction to the history of French civilization.
Prerequisite: French 53, or the equivalent.
105. **SURVEY OF FRENCH LITERATURE.** Sem. 1. Cr. 3.
Study of the origins of the French language and the development of literature with a detailed study of seventeenth century literature. Collateral assignments; reading in class of representative selections.
Prerequisite: French 54, or the equivalent.
106. **SURVEY OF FRENCH LITERATURE.** Sem. 2. Cr. 3.
Study of eighteenth and nineteenth century literature.
Prerequisite: French 105, or the equivalent.
113. **COMPOSITION AND CONVERSATION.** Sem. 1. Cr. 2.
Written composition based on connected reading, with emphasis on the use of idioms. Conversation based on topics of current interest.
Prerequisite: French 54, or the equivalent.
[Given upon sufficient demand.]
114. **ADVANCED COMPOSITION AND CONVERSATION.** Sem. 2. Cr. 2.
Original oral and written compositions, and practice in conversation.
Prerequisite: French 113.
[Given upon sufficient demand.]
151. **SEVENTEENTH CENTURY CLASSIC DRAMA.** Sem. 1. Cr. 3.
Study of the development of classic form in the plays of Corneille and Racine and of Moliere's art in depicting contemporary manners.
Prerequisite: French 106, or the equivalent.
Alternates with French 153.

152. **EIGHTEENTH CENTURY LITERATURE.** Sem. 2. Cr. 3.
Study of eighteenth century philosophy and literature.
Prerequisite: French 106, or the equivalent.
Alternates with French 154.
153. **NINETEENTH CENTURY LITERATURE.** Sem. 1. Cr. 3.
Study of various periods of nineteenth century literature, with rapid reading of representative novels, plays and poetry.
Prerequisite: French 106, or the equivalent.
Alternates with French 151.
[Not offered 1937-1938.]
154. **CONTEMPORARY LITERATURE.** Sem. 2. Cr. 3.
A rapid reading course with supplementary classroom lectures in latter nineteenth and twentieth century French literature, including such authors as Renan, Taine, Bourget, Loti, France, Rolland, Proust, Bergson.
Prerequisite: French 153, or the equivalent.
Alternates with French 152.
[Not offered 1937-1938.]
155. **FRENCH CIVILIZATION.** Sem. 1. Cr. 3.
A senior course which considers the civilization of France from its earliest days.
Prerequisite: The ability to read French readily.
[Given upon sufficient demand.]
156. **FRENCH CIVILIZATION.** Sem. 2. Cr. 3.
Continuation of French 155.
Prerequisite: French 155.
[Given upon sufficient demand.]
191. **THE TEACHING OF FRENCH.** Sem. 2. Cr. 2.
A teacher's course; the fundamental principles underlying the teaching of modern languages; the position of modern languages in American education; the methods and theories of teaching French; review of phonetic symbols; the subject matter and apparatus of French teaching; difficulties encountered in high school teaching; standard tests.
Prerequisite: Six hours of the major in French.
[Given upon sufficient demand.]

German

Mr. Miller, Miss Rechenberg

Major

A major consists of not less than twenty-four credit hours. A prerequisite is German 54, or the equivalent. Students preparing to teach German must include German 113 and 114 in their major.

Minor

A minor consists of not less than twelve credit hours. A prerequisite is German 54, or the equivalent.

Courses in German

1. **FIRST SEMESTER GERMAN.** Sem. 1. Cr. 3.
Designed primarily to give the student a reading knowledge of easy German prose. Two sections: Miller and Rechenberg
2. **SECOND SEMESTER GERMAN.** Sem. 2. Cr. 3.
Prerequisite: German 1, or the equivalent. Two sections: Miller and Rechenberg
53. **THIRD SEMESTER GERMAN.** Sem. 1. Cr. 3.
Intermediate German. Includes selected readings from modern prose writers and the classical poets, a review of German grammar, a practice in writing and speaking German, and reports on outside reading. Prerequisite: German 2, or the equivalent. Two sections: Rechenberg
54. **FOURTH SEMESTER GERMAN.** Sem. 2. Cr. 3.
Continuation of German 53, with an introduction to the history of German civilization. Prerequisite: German 53, or the equivalent. Two sections: Rechenberg
105. **CLASSICAL AUTHORS.** Sem. 1. Cr. 3.
An introduction to the classical period of German literature. Selections especially from the works of Lessing, Goethe, and Schiller. Lectures and supplementary outside readings. Prerequisite: German 54, or the equivalent. Rechenberg

106. CLASSICAL AUTHORS. Sem. 2. Cr. 3.
Prerequisite: German 105, or the equivalent. Rechenberg
113. GERMAN COMPOSITION. Sem. 1. Cr. 2.
Review of grammar, written and oral reports on outside reading, letter writing.
Prerequisite: German 54, or the equivalent.
[Given upon sufficient demand.] Rechenberg
114. GERMAN COMPOSITION. Sem. 2. Cr. 2.
Prerequisite: German 113, or the equivalent.
[Given upon sufficient demand.] Rechenberg
153. HISTORY OF GERMAN LITERATURE TO 1800. Sem. 1. Cr. 3
Lectures and outside reading.
Prerequisite: German 106, or the equivalent.
Alternates with German 155. Miller
155. NINETEENTH CENTURY LITERATURE. Sem. 1. Cr. 3.
Class reading, lectures, and outside reading.
Prerequisite: German 106, or the equivalent.
Alternates with German 153.
[Not offered 1937-1938.] Miller
156. NINETEENTH CENTURY LITERATURE. Sem. 2. Cr. 3.
Prerequisite: German 155, or the equivalent.
Alternates with German 154.
[Not offered 1937-1938.] Miller
157. GOETHE. Sem. 1. Cr. 3.
Class reading, lectures, and outside reading.
Prerequisite: German 106, or the equivalent.
Alternates with German 163. Miller
158. GOETHE. Sem. 2. Cr. 3.
Prerequisite: German 157, or the equivalent.
Alternates with German 164. Miller
162. GRILLPARZER. Sem. 2. Cr. 3.
Class reading, lectures, and outside reading.
Prerequisite: German 106, or the equivalent.
Alternates with German 156. Miller
163. SCHILLER. Sem. 1. Cr. 3.
Class reading, lectures, and outside reading.
Prerequisite: German 106, or the equivalent.
Alternates with German 157.
164. SCHILLER. Sem. 2. Cr. 3.
Continuation of German 163.
Prerequisite: German 163, or the equivalent.
Alternates with German 158. Miller
191. THE TEACHING OF GERMAN. Sem. 1. Cr. 2.
A teacher's course; the position of modern languages in American education; analysis of the principles and practices that are applicable to foreign language study; a study of the material in teaching German; standard tests.
Prerequisite: Ten hours of a major in German.
[Given upon sufficient demand.] Miller

Latin

Mr. Bauer, Mr. Miller

Minor

A minor consists of not less than 12 credit hours. A prerequisite is Latin 54, or the equivalent.

Courses in Latin

53. INTERMEDIATE LATIN: CICERO. Sem. 1. Cr. 3.
Several speeches of Cicero will be read. The study of the text will be accompanied by a review of forms and syntax.
Prerequisite: Two units of high school Latin. Miller
54. INTERMEDIATE LATIN: VIRGIL. Sem. 2. Cr. 3.
This course introduces the student to Latin poetry. The emphasis is on the understanding and interpretation of the selections read.
Prerequisite: Latin 53, or three units of high school Latin. Miller

105. **CICERO'S DE SENECTUTE AND SELECTIONS FROM CATULLUS.** Sem. 1. Cr. 3.
The course aims to give the student a better understanding of Latin construction and to interpret Cicero as a man of letters.
Prerequisite: Latin 54, or the equivalent.
Alternates with Latin 107. Bauer
106. **OVID.** Sem. 2. Cr. 3.
The course is based largely on Ovid's *Metamorphoses* with selections from his minor works.
Prerequisite: Latin 54, or the equivalent. Bauer
107. **LIVY.** Sem. 1. Cr. 3.
The course, introducing the student to Roman historical writing, aims to develop the power to read Latin more readily by strengthening the student's knowledge of Latin construction.
Prerequisite: Latin 54, or the equivalent.
Alternates with Latin 105.
[Not offered 1937-1938.] Bauer
108. **ROMAN COMEDY.** Sem. 2. Cr. 3.
History of the rise and decline of Roman comic drama. From the extant plays the *Captivi* of Plautus and *Phormio* of Terence will be selected for class study with reading of several other plays in English translation.
Prerequisite: Latin 54, or the equivalent.
Alternates with Latin 106.
[Not offered 1937-1938.] Bauer

The Department of Geography and Geology

Associate Professor Meyer [Head]

Field and Function

Modern chorographic geography is the science which seeks (1) to describe and map the natural and cultural phenomena of specific regions of the earth, (2) to point out the distributional relationships which exist between the human and natural forms of the environment, and (3) to explain the part which environment plays in human adjustments—in the occupation of areas, in the utilization of resources, in the promotion of industry and commerce, and in the historical development of the various patterns of civilization.

Geology deals with the structure and history of the earth.

The region about Valparaiso is eminently suited for the study of land form and land use patterns. Four major physiographic units afford interesting and instructive contrasts in landscape characteristics: the Valparaiso Moraine with its continental divide, near which the city of Valparaiso is located; the Chicago Lake Plain to the north and northwest, featuring phenomenal industrial and commercial development; the internationally famous Dunes, scenic recreation and resort center on the shore of Lake Michigan; and finally, the historically and economically interesting reclaimed Kankakee agricultural region south of the moraine.

Geography courses in the department yield social science credit; geology, natural science credit.

Objectives

Course offerings are designed (1) to fulfill teaching option requirements and to meet the growing demands for adequate training in the teaching of geography, (2) to contribute basic geographic material to other disciples, such as, economics, history, political science, sociology, and biology, and (3) to enhance appreciation of world events and traveling experiences by supplying to the student geographic and geologic perspective.

Approval of Schedules

All students taking a major or a minor in the department and all students planning to teach Geography must have their schedules approved by the head of the department at the beginning of each semester.

Major

Twenty-four credit hours are required for a major in Geography which may include Geology 51 and 52.

Minor

Fifteen credit hours are required for a minor in Geography, which may include Geology 51 and 52.

Courses in Geography
(Social Science)

51. **SOCIAL GEOGRAPHY.** Sem. 1. Cr. 3.
An integrated treatment of human occupancy and natural environmental characteristics of the major regions of the earth. Human society and economy, as expressed in the character and distribution of population and in the patterns of land utilization, are interpreted on the basis of the interrelation which exists between the cultural forms of the landscape and the elements of the natural environment—climate, landform, soil, natural vegetation, etc.
52. **SOCIAL GEOGRAPHY.** Sem. 2. Cr. 3.
A continuation of Geography 51.
No prerequisite.
101. **ECONOMIC GEOGRAPHY.** Sem. 1. Cr. 3.
A study of agricultural, industrial, and commercial products and activities in connection with environmental factors.
No prerequisite.
125. **PHYSICAL-CULTURAL NORTH AMERICA.** Sem. 1. Cr. 3.
A relationship study of the natural and cultural forms of landscapes of North America treated regionally by physiographic provinces.
Prerequisite: Three credits in geography.
Alternates with Geography 129.
[Not offered 1937-1938.]
129. **PHYSICAL-CULTURAL EUROPE.** Sem. 1. Cr. 3.
A regional treatment of the social, political, industrial, and commercial patterns of Europe in relation to climate, land, sea, drainage, and other forms of the natural set-up.
Prerequisite: Three credits in geography.
Alternates with Geography 125.
152. **TRADE AND TRANSPORTATION.** Sem. 2. Cr. 3.
A course which treats of the inter-regional and international trade in agricultural, mineral, and manufactured products; of the distribution of the world's chief commercial centers and transportation routes on land and sea; and of the relations of commercial resources and activities to world power.
Prerequisite: Three credits in geography.
Alternates with Geography 162.
162. **HISTORICAL AND POLITICAL GEOGRAPHY.** Sem. 2. Cr. 3.
A survey of ancient geographic speculations, successive epochal discoveries and explorations, origin and development of commerce, evolution of geographic thought and modern concepts of geographic philosophy, together with a consideration of the influence of these factors and those of the environment itself on ancient, medieval, and modern civilizations.
Prerequisite: Six credits in geography.
Alternates with Geography 152.
[Not offered 1937-1938.]
191. **THE TEACHING OF GEOGRAPHY.** Cr. 2.
A course in the objectives, principles, methods, and materials of teaching geography in the secondary school.
199. **SEMINAR-SURVEY.** Sem. 2. Cr. 1-3.
Special assignments only to advanced Geography majors and minors. Consult head of department.

Courses in Geology
(Natural Science)

51. **PHYSIOGRAPHY.** Sem. 1. 3+2, Cr. 4.
An introduction to the surface features of the earth. This course and its continuation in General Geology are designed to aid the general student in appreciating the meaning of earth features, as well as to supplement the training in the field of geography. Laboratory and field studies.
Laboratory fee, \$2.00.
52. **GENERAL GEOLOGY.** Sem. 2. 3+2, Cr. 4.
A treatment of the fundamental principles of physiographical, stratigraphical, structural, and dynamical geology; consideration of the theoretical phases, practical applications, and historical development of the science. Laboratory work includes a study of a specially constructed miniature earth model. Field trip.
Laboratory fee, \$2.00

The Department of Mathematics and Physics

Associate Professor Thomas [Head], Assistant Professor Frick,
Mr. Betz

Mathematics

Mr. Frick, Mr. Betz

The department offers: (1) training in the mathematical technique required by the scientist and the engineer for the successful prosecution of their work; (2) instruction for those who are studying mathematics for its own sake or with a view toward teaching the subject.

Practical problems are given precedence over those that are purely theoretical. The principles of pure mathematics, however, are not neglected.

Major

Twenty-four credits are required for a major.

Students having a major in view should begin their mathematics in the freshman year. Physics 140 may be counted toward a mathematics major; and students majoring in mathematics are advised to take this course.

Minor

The minor shall consist of two semesters' work beyond Mathematics 52.

Approval of Schedules

All students taking a major or a minor in the department and all students planning to teach mathematics must have their schedules approved by the head of the department at the beginning of each semester.

Courses in Mathematics

01. SOLID GEOMETRY. Sem. 1. 4+0, Cr. 0.
The elements of solid geometry; required of all engineering freshmen who have not had solid geometry in high school. Cushman
02. INTERMEDIATE ALGEBRA. Sem. 2. 4+0, Cr. 0.
Required of all engineering freshmen who present only one year of algebra for entrance requirement. Betz
51. COLLEGE ALGEBRA AND TRIGONOMETRY. Sem. 1. Cr. 4.
Three hours work in college algebra and one in trigonometry. This course is intended for liberal arts and pharmacy students. It is a required course for the latter. Frick
52. TRIGONOMETRY AND ANALYTIC GEOMETRY. Sem. 2. Cr. 4.
Two hours work in plane trigonometry and two hours in plane analytic geometry.
Prerequisite: Mathematics 51. Frick
61. ENGINEERING MATHEMATICS. Sem. 1. Cr. 5.
First semester mathematics for the engineer. Consists of college algebra and trigonometry. Betz
62. ENGINEERING MATHEMATICS. Sem. 2. Cr. 5.
Second semester mathematics for the engineer. Consists of trigonometry and analytic geometry.
Prerequisite: Mathematics 61. Betz
111. DIFFERENTIAL CALCULUS. Sem. 1. Cr. 4.
Prerequisite: Mathematics 52 or 62. Frick
112. INTEGRAL ALGEBRA. Sem. 2. Cr. 4.
Prerequisite: Mathematics 111. Frick
131. ADVANCED ALGEBRA. Sem. 1. Cr. 3.
Selected topics in advanced college algebra.
Prerequisite: Mathematics 52 or 62.
Alternates with Mathematics 141.
[Not offered 1937-1938.] Frick
141. COLLEGE GEOMETRY. Sem. 1. Cr. 4.
Selected topics in advanced synthetic or analytic geometry.
Prerequisite: Mathematics 52 or 62.
Alternates with Mathematics 131. Frick

152. **MATHEMATICS OF FINANCE.** Sem. 2. Cr. 4.
Interest, annuities, amortization and bond valuation.
Prerequisite: Mathematics 51 or 61. Frick
171. **DIFFERENTIAL EQUATIONS.** Sem. 1. Cr. 3.
Ordinary differential equations; applications to mechanical, physical, and chemical problems.
Prerequisite: Mathematics 112. Frick
172. **DIFFERENTIAL EQUATIONS.** Sem. 2. Cr. 3.
Non-linear and partial differential equations; existence theorems.
Prerequisite: Mathematics 171. Frick
191. **THE TEACHING OF MATHEMATICS.** Sem. 1. Cr. 2.
A teacher's course. Open to education students.
Prerequisite: Minor in mathematics. Frick

Physics

Mr. Thomas, Mr. Betz

Because of its fundamental importance in the different branches of applied science, physics (a) serves the varied needs of the technical student, the student of engineering, pre-medicine, and pharmacy. Provision has also been made for the interests of two other groups of students; namely, (b) those in the College of Liberal Arts who desire some knowledge of physical science for its cultural value and (c) those who are looking forward to a career in physics, either in the teaching profession or in industrial research.

Major

Twenty-four credits in physics shall constitute a major.
A minor in mathematics is necessary for a physics major.

Minor

A minor shall consist of two semesters' work beyond Physics 51 and 52, totaling at least fourteen hours.

Courses in Physics

51. **GENERAL PHYSICS.** Sem. 1. 3+3, Cr. 4.
Mechanics, sound, and heat.
Laboratory fee, \$6.00; deposit, \$2.00 Thomas and Betz
52. **GENERAL PHYSICS.** Sem. 2. 3+3, Cr. 4.
Electricity and light.
Laboratory fee, \$6.00; deposit, \$2.00 Thomas and Betz
61. **TECHNICAL PHYSICS.** Sem. 1. 3+6, Cr. 5.
Mechanics, sound, and heat. This course is intended particularly for the engineer.
Prerequisite: Mathematics 62.
Laboratory fee, \$6.00; deposit, \$2.00. Thomas and Betz
62. **TECHNICAL PHYSICS.** Sem. 2. 3+6, Cr. 5.
Electricity and light. This course is intended particularly for the engineer.
Prerequisite: Mathematics 62.
Laboratory fee, \$6.00; deposit, \$2.00. Thomas and Betz
82. **GLASS BLOWING.** Sem. 2. 0+3, Cr. 1.
The rudiments of glass blowing and, if desired, other laboratory manipulations.
Laboratory fee, \$6.00 Betz
101. **MODERN PHYSICS.** Sem. 1. 3+3, Cr. 4.
An introduction to the work done in physics during the last thirty years.
Prerequisite: Physics 51-52, or 61-62.
Laboratory fee, \$6.00; deposit, \$2.00. Thomas
111. **THEORY OF HEAT.** Sem. 2. 2+6, Cr. 4.
Thermal properties of matter, introduction to thermodynamics, properties of vapors, pyrometry and other thermal phenomena are studied.
Prerequisite: Physics 51-52, or 61-62, and Mathematics 52 or 62.
Laboratory fee, \$6.00; deposit, \$2.00. Thomas

122. **THEORY OF LIGHT.** Sem. 2. 2+6, Cr. 4.
Geometrical and physical optics, spectroscopy, and the general properties of radiant energy will be considered.
Prerequisite: Physics 51-52 and Mathematics 112. May be taken concurrently with Mathematics 112.
Laboratory fee, \$6.00; deposit, \$2.00.
Alternates with Physics 132. Thomas
126. **DESCRIPTIVE ASTRONOMY.** Sem. 2. 3+0, Cr. 3.
A general introduction to non-mathematical astronomy.
Laboratory hours may be inserted in place of some of the recitations. This course may not be applied on a major or a minor in physics.
Laboratory fee, \$2.00. Thomas
132. **ELECTRICITY AND MAGNETISM.** Sem. 2. 2+6, Cr. 4.
The basic principles of electrical and magnetic phenomena are investigated.
Prerequisite: Physics 51-52 and Mathematics 112. Can be taken concurrently with Mathematics 112.
Laboratory fee, \$6.00; deposit, \$2.00.
Alternates with Physics 122.
[Not offered 1937-1938.] Thomas
133. **ELECTRICAL AND MAGNETIC MEASUREMENTS.** Sem. 1. 1+6, Cr. 3.
Required of juniors who are taking electrical engineering.
Prerequisite: Mathematics 112 and Physics 61-62.
Laboratory fee, \$6.00; deposit, \$2.00. Thomas
141. **THEORETICAL MECHANICS.** Sem. 1. 3+0, Cr. 3.
The mathematical theory of statics and Newtonian dynamics.
Prerequisite: Physics 51-52 and Mathematics 112.
[Not offered 1937-1938.] Thomas
184. **GENERAL ASTRONOMY.** Sem. 2. 3+0, Cr. 3.
Students taking this course will attend the lectures of Physics 126 and will be required to do additional laboratory and problem work. This course may be applied on a Physics major or minor.
Prerequisite: Mathematics 52 or 62 and Physics 51-52 or 61-62.
Laboratory fee, \$2.00. Thomas
191. **THE TEACHING OF PHYSICS.** Sem. 2. 1+3, Cr. 2.
A teacher's course. Open to education students.
Prerequisite: Minor in Physics.
Laboratory fee, \$6.00; deposit, \$2.00. Thomas
[Not offered 1937-1938.]

The Department of Music

Mr. Schoenbohm [Head], Professor Chaffee, Mr. Green
Mr. Frost

Aims

The chief aims of this department are: (1) to give students an opportunity to understand and appreciate music; (2) to offer students who plan to become supervisors and teachers of public school music a four-year curriculum leading to the degree of Bachelor of Arts.

I. Curriculum in Public School Music

Freshman Year			
First Semester		Second Semester	
	Cr.		Cr.
1. Freshman Composition	3	2. Freshman Composition	3
1. The Bible*	3	2. Jesus and His Teachings*	3
A laboratory science	4	A laboratory science	4
M. 1. Sight Singing	1	M. 2. Sight Singing	1
M. 3. Ear Training	1	M. 4. Ear Training	1
M. 5. Essentials of Music	0	M. 6. Essentials of Music	0
Voice	1	Voice	1
1. Individual Health Program	0	2. Individual Health Program	0
Foreign Language	3	Foreign Language	3
16		16	

*These courses are required of all students except those who have received exemption from the Committee on Admissions and Degrees.

Sophomore Year

<i>First Semester</i>	<i>Cr.</i>	<i>Second Semester</i>	<i>Cr.</i>
51. Survey of English Literature	3	52. Survey of English Literature	3
Foreign Language	3	Foreign Language	3
51. General Psychology	3	62. Public Education	3
51. Sight Singing	1	52. Sight Singing	1
53. Ear Training	1	54. Ear Training	1
15. Harmony	3	16. Harmony	3
Voice	1	Voice	1
Piano	1	Piano	1
	<hr/> 16		<hr/> 16

Junior Year

<i>First Semester</i>	<i>Cr.</i>	<i>Second Semester</i>	<i>Cr.</i>
A social science	3	A social science	3
A laboratory science	4	118. Secondary Education	3
55. Harmony	2	A laboratory science	4
101. Educational Psychology	3	56. Harmony	2
Applied music	1	110. Elementary School Music	
109. Elementary School Music		Methods	2
Methods	2	Applied music	1
155. Orchestral Instrument	1	156. Orchestral Instrument	1
	<hr/> 16		<hr/> 16

Senior Year

<i>First Semester</i>	<i>Cr.</i>	<i>Second Semester</i>	<i>Cr.</i>
103. History and Appreciation of Music	2	104. History and Appreciation of Music	2
151. Principles of Teaching	3	194. Supervised Teaching	3
153. Instrumentation and Conducting	2	162. Orchestration	2
Applied music	2	Applied music	2
117. Instrumental Methods	1	118. Instrumental Methods	1
191. High School Music Methods	2	192. High School Music Methods	2
81. Public Speaking	3	151. The Church and Her Work*	2
Elective	1	132. Choir Training	2
	<hr/> 16		<hr/> 16

Ensemble is required each year. The student is required to take choir and either band or orchestra.

Piano required: Students with a major in Public School Music must present for graduation work in piano equivalent to third grade proficiency.

II. Major for Secondary School Teachers

This major is intended for students who do not desire to become supervisors in public school music, but wish to meet state requirements for teaching music in secondary schools. The program is designed to prepare students to conduct bands, orchestras, and glee clubs in secondary schools.

The major consists of not less than twenty-six credit hours, distributed approximately as follows:

Methods	12 credits
(Courses 109-110, 117-118, 153, 162, 191-192)	
Sight Singing	2 credits
Ear Training	2 credits
Harmony	4 credits

*This course is required of Lutheran students only.

Voice -----	2 credits
Piano -----	2 credits
Orchestral Instrument -----	2 credits

Students taking this major are required to take Ensemble 1E and 3E. They must also study their special instrument throughout the four years of the course.

III. General Major

This major consists of not less than twenty-six credit hours, distributed approximately as follows:

Sight Singing -----	2 credits
Ear Training -----	2 credits
Harmony -----	10 credits
Counterpoint -----	4 credits
Harmonic Analysis -----	2 credits
Applied Music -----	6 credits

Students in this course are required to take ensemble each semester.

Approval of Schedules

All students who are taking a major in this department, and all students who are planning to teach music, must have their programs approved by the head of the department at the beginning of each semester.

Unit of Credit

The unit for credit in applied music is estimated as follows:

1. *Violin, Piano, Voice*: One thirty-minute private lesson per week plus one hour daily practice for five days a week. One credit per semester.
2. *Violin*: One class lesson per week. One-half credit per semester.
3. *Orchestral Instruments*: One thirty-minute private lesson per week plus one hour daily practice five days a week. One credit per semester.

Student Recitals: Music students are required to attend all recitals as a part of their regular work and perform in recitals when so directed by their instructors.

Ensemble is required each year.

Applied music is the practical study of voice, violin, piano, et cetera. Theory is a group name for harmony, counterpoint, harmonic analysis, composition, and allied subjects.

Courses in Applied Music

Piano

Mr. Green

For admission to the piano curriculum, piano students must demonstrate by examination the ability to play all major and minor scales, hands together, two, three and four notes at M. M. 110; major and minor arpeggios, each hand alone, four notes at M. M. 80; selections from the following, or the equivalent: Heller Op. 45 and 46, Loeschorn Op. 66, the easier Haydn and Mozart Sonatas.

49-50P. PIANO. Yr. Each semester. 1+5, Cr. 2.

Playing of all major and minor scales with facility—four notes at M. M. 120-122; all major and minor arpeggios (triads) in fundamental positions and inversions—four notes at M. M. 89-100; Etudes or exercises selected from Czerny, Op. 299; Cramer, Bach, *Inventions*, Bach's *Little Preludes* and *Fugues*, and other technical exercises of similar grade; Mozart sonatas and easier Beethoven sonatas; compositions by Grieg, Schubert, Schumann, and Mendelssohn. Memorizing.

49½-50½P. PIANO. Yr. Each semester. ½+5, Cr. 1.

A reasonable amount of the material covered in Music 49-50P.

99-100P. PIANO. Yr. Each semester. 1+5, Cr. 2.

All scales with rapidity and variety of tone—seven notes at M. M. 88-95. Seventh chord arpeggios—four notes at M. M. 120-132. Hanon Virtuoso Studies, Czerny Op. 740, Bach's *Well Tempered Clavichord*, Beethoven, *Sonatas*; Chopin, *Preludes and Waltzes*; compositions by Mendelssohn, Schumann, Rubenstein, Grieg, MacDowell, Sinding, and Raff. Memorizing.

Prerequisite: Music 49-50P.

99½-100½P. PIANO. Yr. Each semester. ½+5, Cr. 1.

A reasonable amount of the material covered in Music 99-100P.

Prerequisite: Music 49½-50½P.

149-150P. PIANO. Yr. Each semester. 1+5, Cr. 2.

Scales and studies in double, thirds and sixths; Moskowski, Killak's *Octave School*; Henselt, *Etudes*; Chopin, *Ballads*; Beethoven, *Sonatas*; Mendelssohn, *Concerto*; Brahms's, *Rhapsodies*, and compositions of equal difficulty.

Prerequisite: Music 99-100P.

149½-150½P. PIANO. Yr. Each semester. ½+5, Cr. 1.

A reasonable amount of the material covered in Music 149-150P.

Prerequisite: Music 99½-100½P.

199-200P. PIANO. Yr. Each semester. 1+5, Cr. 2.

Chopin, *Etudes*; sonatas and concertos by Beethoven, MacDowell, Brahms.

Prerequisite: Music 149-150P.

199½-200½P. PIANO. Yr. Each semester. ½+5, Cr. 1.

A reasonable amount of the material covered in Music 199-200P.

Prerequisite: Music 149½-150½P.

177-178P. ACCOMPANYING. Yr. Each semester. Cr. 1.

Study in the art of playing piano accompaniments. Practical work under supervision, with singers, violinists, and other instrumentalists. Open to students with sufficient experience. Consultation with instructor necessary before registering.

Prerequisite: Music 149-150P.

185-186. REPERTOIRE AND INTERPRETATION. Yr. Each semester. Cr. 1.

The works of the older classic composers together with those of the modern school discussed and illustrated, with reference to the interpretative aspect, and to program building.

191P. THE TEACHING OF PIANO. Sem. 1. Cr. 2.

The fundamental principles of the art of teaching the piano form the subject matter of this course. Consideration will be given to such topics as these: Psychology and pedagogy of teaching; past and present piano methods; piano touches, technic, rhythm, pedaling, phrasing, and interpretation.

Violin

Mr. Frost

For admission to the violin curriculum, students must demonstrate by examination that they are well grounded in correct position, intonation, tone, and bowing, and that they have completed the following: Kayser Bk. II, a reasonable amount of Schradieck and Sevcik, or the equivalent.

49-50Vi. VIOLIN. Yr. Each semester. 1+5, Cr. 2.

All major and minor scales and arpeggios in three octaves. Position studies and double stops in first position. Studies from Kayser, Dont, Sevcik; concertos and pieces of Seitz, Accolay, and Sitt.

49½-50½Vi. VIOLIN. Yr. Each semester. ½+5, Cr. 1.

A reasonable amount of the material covered in Music 49-50Vi.

99-100Vi. VIOLIN. Yr. Each semester. 1+5, Cr. 2.

Study of higher positions and double stops. Studies from Sevcik, Kreutzer, Leonard, Dont; concertos and pieces of de Beriot, Leonard, Seitz; sonatinas of Schubert, easier sonatas of Handel.

99½-100½Vi. VIOLIN. Yr. Each semester. ½+5, Cr. 1.

A reasonable amount of the material covered in Music 99-100Vi.

149-150Vi. VIOLIN. Yr. Each semester. 1+5, Cr. 2.

Scale studies in thirds, sixths, and octaves; studies of Kreutzer, Leonard, Fiorillo; concertos and pieces of Kreutzer, de Beriot, Dont, Rode; sonatas of old Italian masters, Mozart, and Beethoven.

149½-150½Vi. VIOLIN. Yr. Each semester. ½+5, Cr. 1.

A reasonable amount of the material covered in Music 149-150Vi.

199-200Vi. VIOLIN. Yr. Each semester. 1+5, Cr. 2.

Scale studies in thirds, sixths, octaves, and tenths; studies of Kreutzer, Fiorillo, Rode, Gaviniés; study of standard concertos; sonatas of Bach.

199½-200½Vi. VIOLIN. Yr. Each semester. ½+5, Cr. 1.

A reasonable amount of the material covered in Music 199-200Vi.

195-196Vi. SENIOR RECITAL. Yr. Each semester. Cr. 2.

A senior recital program is given, selected by the instructor, the numbers depending largely upon the ability and style of the individual student. A sonata, concerto, and groups of the more important works of standard classic and modern composers will comprise the program.

Viola

49-50Va. VIOLA. Yr. Each semester. 1+5, Cr. 2.

Studies from Sitt and Schloming; scales and arpeggios in two octaves; concertos and pieces of Burmeister, Sitt, and Schuman.

49½-50½Va. VIOLA. Yr. Each semester. ½+5, Cr. 1.

A reasonable amount of the material covered in Music 49-50Va.

99-100Va. VIOLA. Yr. Each semester. 1+5, Cr. 2.

Studies from Sitt, Schloming, Hofmeister; scales and arpeggios in three octaves; double stops in lower positions; concertos and pieces of Sitt and Steiner; easier sonatas of Handel.

99½-100½Va. VIOLA. Yr. Each semester. ½+5, Cr. 1.

A reasonable amount of the material covered in Music 99-100Va.

149-150Va. VIOLA. Yr. Each semester. 1+5, Cr. 2.

Studies from Sitt, Schloming, Hofmeister, Campagnoli, and Kreutzer; scales and arpeggios in three octaves, also in thirds, sixths, and octaves; concertos of Sitt, Steiner, and Handel; sonatas of Bach.

149½-150½Va. VIOLA. Yr. Each semester. ½+5, Cr. 1.

A reasonable amount of the material covered in Music 149-150Va.

199-200Va. VIOLA. Yr. Each semester. 1+5, Cr. 2.

Studies from Sitt, Schloming, Hofmeister, Campagnoli, Kreutzer, Fiorillo, and Bode; scales and arpeggios in three octaves, also in thirds, sixths, and octaves; concertos of Sitt, Handel, and Bowen; sonatas of Bach.

199½-200½Va. VIOLA. Yr. Each semester. ½+5, Cr. 1.

A reasonable amount of the material covered in Music 199-200Va.

Violoncello

49-50Cl. CELLO. Yr. Each semester. 1+5, Cr. 2.

Study of lower positions, various kinds of bowing, development of tone; scale and arpeggios in two octaves; studies of Dotzauer; easy solos.

49½-50½Cl. CELLO. Yr. Each semester. ½+5, Cr. 1.

A reasonable amount of the material covered in Music 49-50Cl.

99-100Cl. CELLO. Yr. Each semester. 1+5, Cr. 2.

Scales and arpeggios in three octaves; study of double stops; studies of Dotzauer, Klingenburg, Gruzmacher; concertos by Golterman, sonatas of Marullo.

99½-100½Cl. CELLO. Yr. Each semester. ½+5, Cr. 1.

A reasonable amount of the material covered in Music 99-100Cl.

149-150Cl. CELLO. Yr. Each semester. 1+5, Cr. 2.

Scales and arpeggios in four octaves; study of thirds, sixths, and octaves; studies of Lee, Grutzmacher, solos and concertos by Golterman and Saint-Saens; sonatas of Bach and Handel.

149½-150½Cl. CELLO. Yr. Each semester. ½+5, Cr. 1.

A reasonable amount of the material covered in Music 149-150Cl.

199-200Cl. CELLO. Yr. Each semester. 1+5, Cr. 2.

Scales and arpeggios; double stop exercises; Duport etudes; Bach sonatas; standard concertos.

199½-200½Cl. CELLO. Yr. Each semester. ½+5, Cr. 1.

A reasonable amount of the material covered in Music 199-200Cl.

Orchestral Instruments

The prerequisite for entrance in the freshman year: the student should have acquired the elementary technique of his instrument.

- 49-50W. ORCHESTRAL INSTRUMENT. Each semester. 1+10, Cr. 2.
Ability to play acceptable exercises of moderate difficulty, including all the principal phases of technique characteristic of the particular instrument played.
- 49½-50½W. ORCHESTRAL INSTRUMENT. Each semester. ½+5, Cr. 1.
A reasonable amount of the material covered in Music 49-50W.
- 99-100W. ORCHESTRAL INSTRUMENT. Each semester. 1+10, Cr. 2.
The student should acquire sufficient orchestra routine to fill satisfactorily a second desk position in symphonic works of lesser difficulty.
- 99½-100½W. ORCHESTRAL INSTRUMENT. Each semester. ½+5, Cr. 1.
A reasonable amount of the material covered in Music 99-100W.
- 149-150W. ORCHESTRAL INSTRUMENT. Each semester. 1+10, Cr. 2.
The student should acquire sufficient orchestra routine to fill the principal position in symphonic works.
- 149½-150½W. ORCHESTRAL INSTRUMENT. Each semester. ½+5, Cr. 1.
A reasonable amount of the material covered in Music 149-150W.
- 199-200W. ORCHESTRAL INSTRUMENT. Each semester. 1+10, Cr. 2.
Ability to play, preferably from memory, an etude, a sonata, a concerto, or their equivalents, and at least three miscellaneous pieces.
- 199½-200½W. ORCHESTRAL INSTRUMENT. Each semester. ½+5, Cr. 1.
A reasonable amount of the material covered in Music 199-200W.
Orchestra or band is required each year. See note on ensemble credit under curriculum in applied music.

Voice

General piano requirement: Students with a major in voice must present, for graduation, work in piano equivalent to M. 100P.

- 49-50Vo. VOICE. Yr. Each semester. 1+5, Cr. 2.
The psychology of voice culture: corrective breathing and posture exercises; development of natural breath control by means of correct posture and release of body energy; the relation of energy release to the expression of ideas in song; exercises, scales, and studies in ear training and imitation of color tone and shading; development of phrasing into song literature.
- 49½-50½Vo. VOICE. Yr. Each semester. ½+2½, Cr. 1.
- 99-100Vo. VOICE. Yr. Each semester. 1+5, Cr. 2.
Continued work in technique; embellishments, staccato and trill; easy art songs; oratorio and ensemble.
Prerequisite: Music 50Vo.
- 99½-100½Vo. VOICE. Yr. Each semester. ½+2½, Cr. 1.
- 149-150Vo. VOICE. Yr. Each semester. 1+5, Cr. 2.
Advanced technique, building into the subject matter of the song; beginning French, German, and Italian art songs; opera and oratorio arias; recitals and ensembles.
- 149½-150½Vo. VOICE. Yr. Each semester. ½+2½, Cr. 1.
- 191Vo. THE TEACHING OF VOICE. Sem. 1. Cr. 2.
Biology, physics, and psychology as applied to singing. The physiological mechanism; the theory of sound; psychology as a factor in singing.
- 199-200Vo. VOICE. Yr. Each semester. 1+5, Cr. 2.
Development of repertoire of world's best vocal music; program building; one complete oratorio or opera role; one lesson weekly in coaching.
Prerequisite: Music 150Vo.
- 199½-200½Vo. VOICE. Yr. Each semester. ½+2½, Cr. 1.
A reasonable amount of material outlined in Music 199-200Vo.
Prerequisite: Music 150Vo.
- 195-196Vo. RECITAL. Yr. Each semester, Cr. 2.
Senior recital to count as final examination; student required to build his own program from his four years' repertoire.

Courses in Theory

Mr. Schoenbohm, Mr. Chaffee, Mr. Green, Mr. Frost

- 1-2. SIGHT SINGING. Yr. Each semester. 2+0, Cr. 1.
Drill in scale and interval singing; easy time subdivisions; notation; two-part singing. Frost

- 3-4. **EAR TRAINING.** Yr. Each semester, 2+0, Cr. 1.
Major and minor scales; intervals and elementary rhythmic problems; a study in writing different kinds of measures by hearing them played or sung; melodic and harmonic intervals and simple chromatic problems; harmonic dictation. Frost
- 5-6. **ESSENTIAL OF MUSIC.** Yr. Each semester, 1+0, Cr. 0.
A one-hour course preparing for Harmony. It includes: writing scales, intervals and chords, and learning the various essential terms used in music. Frost
- 15-16. **HARMONY.** Yr. Each semester. Cr. 3.
The harmonization of melodies using the principal and secondary triads, dominant seventh and inversions, with simple modulation. Harmonic analysis. Frost
Prerequisite: Music 5 and 6.
- 51-52. **SIGHT SINGING.** Yr. Each semester, 2+0, Cr. 1.
Motives and short phrases; two- and three-part exercises and simple modulation; exercises in period writing; a study of chords. Chaffee
- 53-54. **EAR TRAINING.** Yr. Each semester, 2+0, Cr. 1.
Continuation of Music 3 and 4.
Prerequisite: Music 3 and 4. Chaffee
- 55-56. **HARMONY.** Yr. Each semester, Cr. 2.
Secondary seventh chords and their inversions; ninth chords; altered chords, chromatic melodies, advanced modulation, and harmonic analysis. Chaffee
Prerequisite: Music 15 and 16.
- 57-58. **HARMONIC ANALYSIS.** Yr. Each semester, Cr. 2.
Identification from hearing of chords of the seventh in all positions and inversions in major and minor and of common modulations. Analysis of hymns, part songs, and pianistic writings as to form and harmonic content. Chaffee
Prerequisite: Music 55-56.
- 103-104. **HISTORY AND APPRECIATION OF MUSIC.** Yr. Each semester, Cr. 2.
Music of primitive nations; music and instruments of the Bible; music of the early Christian Church; rise and development of the liturgy; notation music and Renaissance; the polyphonic age; the rise of opera and oratorio; the periods of Bach and Handel, Haydn and Mozart; the advent of Beethoven; the rise of virtuosity and romanticism; Wagner and the new operatic tendencies; American music development. Collateral reading, preparation of themes and outlines during both semesters. Green
- 105-106. **COUNTERPOINT.** Yr. Each semester, Cr. 2.
Counterpoint in two, three, and four parts in the various species. Chaffee
Prerequisite: Music 55 and 56.
- 109-110. **ELEMENTARY SCHOOL MUSIC METHODS.** Yr. Each semester, Cr. 2.
Music in the primary grades: sensitizing the child to music, rhythmic training, seating, the rote song, beginning of creative work, monotones, individual work, beginning sight singing. Intermediate grades: project lessons in creative work, the recognition and enjoyment of fine music, further mastery of the score, two-part singing. Music in the upper grades and junior high school: adolescent voice, three- and four-part singing, the glee club, elementary school entertainments. Teaching material. Schoenbohm
- 117-118. **INSTRUMENTAL METHODS.** Yr. Each semester, Cr. 1.
Study of methods for class instruction in string and band instruments in the public schools. Organization of classes, ensemble, problems, and materials. Frost
132. **CHOIR TRAINING.** Sem. 2. Cr. 2.
The training of the volunteer choir. *A capella* singing; the oratorio; the reading of suitable literature. Schoenbohm
- 151-152. **COMPOSITION.** Yr. Each semester, Cr. 2.
Exercises in writing sections, phrases, periods, small two- and three-part primary forms, and large two- and three-part primary forms. Chaffee
Prerequisite: Music 55, 56, 107, 108.
153. **INSTRUMENTATION AND CONDUCTING.** Sem. 1. Cr. 2.
Development of the orchestra and orchestral instruments. Explanation of all orchestra instruments, compasses, characteristics, and tonal effects; the making and reading of orchestral scores; the arranging and scoring of the simpler forms; the fundamentals of conducting with individual practice. Frost
- 155-156. **ORCHESTRAL INSTRUMENT.** Yr. Each semester, Cr. 1.
Applied work in stringed or wind instruments as preparation for conducting school bands and orchestras. Fee required.

162. ORCHESTRATION. Sem. 2. Cr. 2.

Technicalities of the various instruments. The writing and arranging of duets, trios, quartettes, etc., for different combinations of orchestra instruments; arranging for the complete orchestra. Frost

191-192. HIGH SCHOOL MUSIC METHODS. Yr. Each semester. Cr. 2.

A teacher's course. Testing of voice; the high school chorus—seating, sight reading; glee clubs—boys' and girls'; the producing of an opera; a *capella* choir; eight-part literature; the oratorio; voice-class teaching; teaching material; supervising technique.

Prerequisite: Music 109-110.

Schoenbohm

Ensemble

The musical organizations are open to all students who can qualify.

1E. UNIVERSITY CHOIR. Each semester. No credit.

Mixed voices. Admission by examination only. Sacred music sung a *capella*. Daily rehearsals. Attendance required. Tour each spring.

Fee, \$1.00 per semester.

Schoenbohm

3E. THE UNIVERSITY ORCHESTRA. Each semester. No credit.

All students who play orchestral instruments are admitted after consultation with the director.

Membership is required of all students of stringed instruments, at the discretion of the instructor of the violin section. Regular attendance at rehearsals and concerts is obligatory. The best standard orchestral compositions, symphonies, and overtures are studied and publicly performed. Full rehearsals are held Thursday: 7:30-9:30 P. M.; sectional rehearsals are arranged. Frost

The Department of Religion and Philosophy

Professor Haentzschel [Head], Associate Professor Bauer, Mr. Kumnick

Religion

Mr. Bauer, Mr. Haentzschel, Mr. Kumnick

The courses offered, which give opportunity to meet the requirement in religion (see pages 36, 37), have the purpose of leading the student into a deeper and fuller understanding of the Christian faith and of its implications for the Christian life.

Courses in Religion

1. THE BIBLE. Sem. 1. Cr. 3.

An introduction to the study of the Scriptures.

Five sections: Bauer, Haentzschel, Kumnick

2. JESUS AND HIS TEACHINGS. Sem. 2. Cr. 3.

A study of the Savior's person and doctrine in the light of the four gospels.

Four sections: Haentzschel, Kumnick

151. THE CHURCH AND HER WORK. Sem. 1 and 2. Cr. 2.

A brief history of the Lutheran Church in America; specifically a comprehensive survey of the activities of the local congregation and of the Synod of Missouri, Ohio, and other states.

Philosophy

Mr. Haentzschel

Minor

A minor in this field requires twelve credit hours.

Courses in Philosophy

101. ANCIENT AND MEDIEVAL PHILOSOPHY. Sem. 1. Cr. 3.

Alternates with Philosophy 141.

[Not offered 1937-1938.]

102. MODERN PHILOSOPHY. Sem. 2. Cr. 3.

Alternates with Philosophy 142.

[Not offered 1937-1938.]

105. ETHICS. Sem. 1. Cr. 3.

106. LOGIC. Sem. 2. Cr. 3.

141. **THE PHILOSOPHY OF SCIENCE.** Sem. 1. Cr. 3.
The philosophical foundations underlying modern science.
Alternates with Philosophy 101.
142. **AMERICAN PHILOSOPHERS.** Sem. 2. Cr. 3.
Special attention is given to Royce, James, and Dewey.
Alternates with Philosophy 102.

The Department of Social Science

Professor Schwiebert [Head], Professor Haentzschel,
Associate Professor Bauer

The Department of Social Science, stressing the historical and scientific approach toward social problems, aims to give students an understanding of the origin and development of contemporary civilizations, thereby preparing them for intelligent citizenship, the teaching profession, and graduate study.

History

Mr. Schwiebert and Mr. Bauer

Major

A major consists of not less than twenty-six credit hours beyond History 51 and 52.

History Major options:

- I. History Major: History 61-62, 121-122, 131-132 and 182 are required. The remaining ten credit hours may be selected according to the student's special field of interest with the approval of the head of the department.
- II. Teaching Major: Prospective teachers should have their majors well divided between American and General History.
- III. Pre-Legal Major: Students preparing for Law are required to take History 61-62, 122, and 123-124. The department also advises pre-legal majors to take Political Science 101-102, which may be counted toward the major. The remaining hours may be elected with the approval of the head of the department.

History majors are advised to take as many related courses in the social sciences as their schedules will permit.

Prospective graduate students should obtain a reading knowledge of German and French.

Minor

A minor consists of not less than twelve credit hours beyond History 51 and 52.

Approval of Schedules

All students taking a major or a minor in the department and all students planning to teach history must have their schedules approved by the head of the department at the beginning of each semester.

Courses in History

- | | |
|--|------------|
| 51. MEDIEVAL EUROPE. Sem. 1. Cr. 3. | |
| An introductory course in Medieval History, covering the history of Europe from 800 to 1500. | |
| No credit toward major. | Schwiebert |
| 52. MODERN EUROPE. Sem. 2. Cr. 3. | |
| An introductory course to Modern Europe from 1500-1937. | |
| No credit toward major. | Schwiebert |
| 61. UNITED STATES HISTORY TO 1850. Sem. 1. Cr. 3. | |
| A survey course to the Civil War. | Bauer |
| 62. UNITED STATES HISTORY SINCE 1850. Sem. 2. Cr. 3. | |
| A survey course from the Civil War to the present. | Bauer |

121. **THE HISTORY OF GREECE.** Sem. 1. Cr. 2.
A brief survey of the origin, development, and spread of Greek civilization in the Ancient World. Required course for History majors.
Not open to freshmen.
Alternates with History 123. Bauer
122. **THE HISTORY OF ROME.** Sem. 2. Cr. 2.
A brief survey of the history of Rome from its beginning to 300 A.D.
Required course for History and Pre-Legal majors.
Not open to freshmen.
Alternates with History 124. Bauer
123. **MEDIEVAL ENGLAND.** Sem. 1. Cr. 2.
The history of England from the Roman period to the Stuarts. Required of Pre-Legal students.
Prerequisite: History 51 and 52, or the equivalent.
Alternates with History 121.
[Not offered 1937-1938.] Bauer
124. **MODERN ENGLAND.** Sem. 2. Cr. 2.
Continuation of History 123 to the present. Required of Pre-Legal majors.
Prerequisites: History 51, 52, and 123, or the equivalent.
Alternates with History 122.
[Not offered 1937-1938.] Bauer
131. **THE RENAISSANCE.** Sem. 1. Cr. 2.
A study of the origin and development of the Italian Renaissance and its spread to northern Europe. Required of prospective graduate students, and recommended to teaching majors.
Prerequisite: History 51 and 52, or the equivalent. Schwiebert
132. **THE REFORMATION.** Sem. 2. Cr. 2.
In this course the emphasis is placed upon the origin and development of the German Reformation, the Zwinglian and Calvinistic movements in Switzerland, France, the Netherlands, and England, the Counter Reformation and the Thirty Years' War. Required of prospective graduate students and recommended to teaching majors.
Prerequisite: History 51 and 52, or the equivalent. Schwiebert
141. **THE COLONIAL PERIOD.** Sem. 1. Cr. 2.
Prerequisite: History 61 and 62, or the equivalent.
Alternates with History 143. Bauer
143. **GROWTH OF THE WEST.** Sem. 1. Cr. 2.
Prerequisite: History 61 and 62, or the equivalent.
Alternates with History 141.
[Not offered 1937-1938.] Bauer
144. **THE NATIONAL PERIOD.** Sem. 2. Cr. 2.
Prerequisite: History 61 and 62, or the equivalent.
Alternates with History 146.
[Not offered 1937-1938.] Bauer
146. **RECENT AMERICAN HISTORY.** Sem. 2. Cr. 2.
Prerequisite: History 61 and 62, or the equivalent.
Alternates with History 144. Bauer
161. **THE OLD REGIME AND REVOLUTIONARY ERA.** Sem. 1. Cr. 3.
This course aims to analyze and study the conditions in the Old Regime that caused the French Revolution and its spread throughout Europe, the Industrial Revolution, and the great nationalistic upheavals of the 19th Century. Recommended to teaching majors.
Prerequisite: History 51 and 52, or the equivalent. Schwiebert
162. **RECENT EUROPEAN HISTORY.** Sem. 2. Cr. 2.
An advanced course in European history from 1870 to the present. Recommended to teaching majors.
Prerequisite: History 51, 52, and 161.
Alternates with History 198.
[Not offered 1937-1938.] Schwiebert
182. **PRO-SEMINAR IN HISTORY.** Sem. 2. Cr. 2.
A course designed to give history majors the theory and some practice in historical research. Required of prospective graduate students and recommended to teaching majors.
Open to juniors and seniors majoring in History. Schwiebert
191. **THE TEACHING OF HISTORY AND SOCIAL STUDIES.** Sem. 1. Cr. 2.
A teacher's course dealing with the objectives, methods, tests, and examinations, illustrative materials, teaching units, classroom equipment, etc., in the Social Sciences. Each prospective teacher prepares a practical notebook for future use. Schwiebert

198. HISTORY OF CIVILIZATION. Sem. 2. Cr. 3.

This course aims to give the student a comprehensive view of the evolution and unity of the civilizations of mankind. It is given in three six-week units, covering the Ancient, Medieval, and Modern fields of history respectively. Professors from other departments will deliver lectures on specialized phases of the history of civilization as a supplement to the regular lectures and class discussions.

Alternates with History 162.

Open to juniors and seniors majoring in History.

Schwiebert

Political Science

Mr. Schwiebert and Mr. Bauer

101. AMERICAN NATIONAL GOVERNMENT. Sem. 1. Cr. 3.

Recommended to Pre-Legal majors.

Prerequisite: History 61 and 62.

Bauer

102. THE GOVERNMENTS OF EUROPE. Sem. 2. Cr. 3.

Recommended to Pre-Legal majors.

Prerequisite: History 51 and 52.

Schwiebert

Sociology

Mr. Haentzschel

The object of the work in sociology is two-fold: (1) to familiarize the student with the forces and laws under which society evolves, and (2) to bring him, as much as possible, into personal contact with specific contemporary social problems.

Major

A major consists of not less than twenty-six credit hours. Economics 51, 52, and 141 are required on a major. History 51 and 52 should be taken before the major is begun, but may not be counted toward the major.

Minor

A minor consists of not less than twelve credit hours.

Approval of Schedules

All students taking a major or a minor in sociology must have their schedules approved by the head of the department at the beginning of each semester.

Courses in Sociology

51. INTRODUCTION TO THE STUDY OF HUMAN SOCIETY. Sem. 1. Cr. 3.**52. INTRODUCTION TO THE STUDY OF HUMAN SOCIETY. Sem. 2. Cr. 3.**

A continuation of Sociology 51.

Prerequisite: Sociology 51.

101 THE FAMILY. Sem. 1. Cr. 3.

Prerequisite: Sociology 51 and 52.

Alternates with Sociology 131.

[Not offered 1937-1938.]

102. COMMUNITY ORGANIZATION. Sem. 2. Cr. 3.

Prerequisite: Sociology 51 and 52.

Alternates with Sociology 132.

[Not offered 1937-1938.]

131. CRIMINOLOGY. Sem. 1. Cr. 2.

Prerequisite: Sociology 51 and 52.

Alternates with Sociology 101.

132. SOCIAL PROBLEMS. Sem. 2. Cr. 3.

Prerequisite: Sociology 51 and 52.

Alternates with Sociology 102.

General Information

PART V

THE COLLEGE OF ENGINEERING

The College of Engineering

General Information

Purpose

Two objectives must be set by a college of engineering if any measure of success is to attend its graduates:

(1) A broad foundation in both the theory and the practice of engineering must be laid. There must be thorough-going training in the fundamental principles which underlie all divisions of engineering, as well as general exercises or projects in the practical application of these basic principles.

(2) A certain measure of specialization in the main divisions of engineering is necessary in view of the remarkable development of this field of learning in recent years. Hence the College of Engineering combines in its curricula a reasonable amount of specialization during the senior-college years in addition to a thorough grounding in the fundamentals during junior-college years. In short, whereas mathematical and theoretical courses constitute the main body of the program in the first two years, the practical application of these fundamentals to engineering problems in a circumscribed field occupies the greater part of the last two years.

Historical Statement

Civil Engineering was offered as early as 1873. Higher mathematics, surveying, and engineering, taught by Professor M. E. Bogarte, constituted the chief courses of this engineering program. In 1898 a two-year program in Civil Engineering was offered in the so-called Scientific Department. In 1903, a department of Manual Training was established. In 1909, the course of study was changed by Professor R. C. Yeoman to a three-year curriculum in Civil Engineering. Gradually other divisions of engineering were included. Finally, in 1917, the School of Engineering, now the College of Engineering, was organized. This school embraced the following divisions: Civil Engineering, Electrical Engineering, and Mechanical Engineering. In 1920 the standard four-year program was adopted for all divisions.

Advantages of Location

Valparaiso University is located forty-four miles from Chicago, the world's greatest railroad center and foremost industrial center of the United States. Students in the College of Engineering are, therefore, within easy reach of engineering works of the first magnitude. They have the opportunity, at small cost of time and money, to make inspection trips to industrial plants which are either under construction or in operation. The student need not, however, confine himself entirely to engineering problems. He may pursue collateral scientific studies in other schools of the University and also enjoy a wide variety of cultural contacts. He may also take advantage of the unusual opportunities available in Chicago.

Engineering Society

The Engineering Society is an organization of students in the College of Engineering. All students in the college are eligible for membership. At the meetings, papers are presented by students, faculty members, and engineers prominent in industry upon subjects of general engineering interest. The Society also sponsors receptions for new students, inspection trips and banquets.

Frequently, motion pictures of trips through great industrial plants or visits to engineering projects are shown in the Little Theatre, which is located in the Engineering building. Thus, through social activities and other extra-curricular activities of the Society, the students in Engineering gain

many cultural as well as professional advantages.

Students in Electrical Engineering have the privilege of membership in A. I. E. E., and the privilege of attending meetings of the Chicago Chapter.

Students in Mechanical Engineering have the privilege of membership in the Society of Automotive Engineers and the American Society for Metals.

Curricula

The College of Engineering offers the following curricula: Chemical Engineering (two-year program), Civil Engineering, Commercial Engineering, Electrical Engineering, and Mechanical Engineering.

Laboratories

Instruction in engineering is centralized in the Engineering Building. In this building are found the offices, recitation and lecture rooms, drafting rooms, shops and laboratories.

Chemical Engineering

The courses in chemistry are taught in the well-equipped laboratories of the Department of Chemistry. Other subjects are given in engineering departments.

Civil Engineering

The equipment for testing materials includes several vertical testing machines with all necessary accessories for tension, compression, and transverse tests on iron, steel, cement, concrete, and brick.

The hydraulic laboratory is equipped for the study of problems for which large quantities of flowing water are needed. A large size, direct-connected, electric motor-driven, centrifugal pump supplies water for investigations relating to: the flow of water in flumes, large pipes, and conduits; the discharge over dams and weirs, through racks, sluices and submerged orifices; and other features encountered in water power and water supply developments.

The available surveying instruments include those used in ordinary field practice, precise surveying, geodetic work, hydrographic surveying, water supply, and stream measurements.

The cement laboratory contains facilities for all types of experimentation upon cements, aggregates, and concrete.

Electrical Engineering

The electrical engineering laboratory is equipped with direct and alternating current generators and motors of all common types met with in practice, and with all instruments necessary for making complete tests of their operation.

Mechanical Engineering

The mechanical engineering laboratories include the following: (1) An engine laboratory in which there are several steam engines, two-cycle and four-cycle gas engines, one marine-type gas engine, one nine-cylinder rotary airplane engine, and a Diesel engine. Standard apparatus for determining the analysis and calorific values of coals and gases, as well as indicators, gauges, water and gas meters, scales and other necessary accessories are available. A boiler upon which the usual boiler tests are made adjoins the engine laboratory. (2) A well-equipped pattern and wood-working shop. (3) A foundry, moulding, and forge shop. (4) Gas and electric furnaces for use in study of heat-treatment of metals. (5) A splendidly-equipped machine shop, in which any type of metal working and machining may be done.

Admission

Requirements

A student desiring admission to the College of Engineering must present, in addition to the general requirements for admission to the freshman class of the University, one and one-half units in Algebra, one unit in Plane Geometry, and one-half unit in Solid Geometry. A student deficient in Solid Geom-

etry and Advanced Algebra may be admitted as a conditioned student. The condition must be removed during the first year of residence by passing Solid Geometry (Mathematics 01) and Intermediate Algebra (Mathematics 02).

Faculty Adviser

At the beginning of each semester, the students consult the Dean of Engineering concerning the selection of subjects and the arrangement of programs. The Dean will keep in touch with the students during the semester, receive reports on their progress, and suggest to them methods for improving their work.

Requirements for Graduation

Degrees

Upon the recommendation of the faculty of the College of Engineering, the University confers the degree of Bachelor of Science. The diploma contains a specific designation of the curriculum followed. Four years of work must be taken toward a degree in any of the following courses of study: Civil Engineering, Commercial Engineering, Electrical Engineering, and Mechanical Engineering. In order to become a candidate for a degree, the student must have satisfactorily completed 144 credit hours of work and have earned 144 quality points in any one of the curricula listed on the following pages. The student must also have taken at least his last year in residence at Valparaiso University. All rules and regulations of the University, except as herein noted, apply to the College of Engineering.

Inspection Trips

Inspection trips for visiting industrial plants are required of all engineering students. These trips are arranged and conducted by members of the engineering faculty and are designed to correlate the work of the various departments of the college to the industries visited.

Freshman Lectures

Freshmen are required to attend the series of lectures given by the College of Engineering. The purpose of these lectures is to give the freshman a better conception of the work of an engineer, to make clear the kind of training which furnishes the best preparation for the practice of the engineering profession, and to call attention to the methods of study which produce the most satisfactory results. The series of lectures necessarily includes subjects of general interest from the field of engineering.

Professional Degrees in Engineering

The engineering graduate of Valparaiso University is eligible for registration as a candidate for one of the following engineering degrees: Civil Engineer, Electrical Engineer, Mechanical Engineer. These degrees will be granted, subsequent to the receiving of the Bachelor of Science degree, upon the submission of an acceptable thesis and not less than five years of professional experience during which the applicant has supervised, directed, or designed engineering work, or has had responsible charge of instruction or research in engineering. The acceptability of the thesis and of the professional experience shall be determined by a committee of the faculty of the College of Engineering. No resident study is required and no tuition fees are charged. A fee of ten dollars must accompany the application for the professional engineering degree.

The procedure for a candidate for a professional degree is as follows:

1. He must prepare an outline for a thesis after consultation with the head of the department concerned.
2. He must present a thesis subject and a thesis outline to the Dean of the College of Engineering. As soon as these have been approved, the candidate will be registered in the Registrar's office. This registration must be completed not later than the December 15th preceding the date when the

degree is to be conferred, but all candidates are urged to register at least one year earlier.

3. He must submit the first draft of the thesis to the professor in charge not later than April 1, and the completed thesis in its final form not later than May 15. At least three correct copies must accompany the original typed thesis. The original typed copy of the thesis will be deposited in the University library. Two copies will be retained in the office of the Dean of Engineering and one copy in the office of the Registrar. A set of regulations governing the acceptable form and arrangement of thesis matter may be obtained by addressing The Registrar, Valparaiso University, Valparaiso, Indiana.

4. He must submit to an oral examination by a committee of the faculty of the College of Engineering, should the committee desire it. This examination will cover the candidate's professional experience and record and the materials included in the thesis. This committee will be appointed by the Dean of the College of Engineering and the examination will be held at an agreeable date between May 15 and Commencement Day.

5. He must deposit the original thesis and the copies in the office of the Registrar and pay the diploma fee to the Business Manager of the University on or before the Monday preceding the date the degree is to be conferred.

Professional degrees will be granted only in June. Attendance upon the commencement exercises is desirable but not required.

Curricula in Engineering

I. Chemical Engineering

General industrial development and, above all, progress in chemical industries have made chemical engineering one of the most important branches of the engineering profession. There is now a demand for men having a combined engineering and chemical training. For those having Chemical Engineering in view, the following two-year program has been arranged. To obtain a degree the last two years must be spent at a recommended School of Engineering which offers this work.

The Two-Year Program in Chemical Engineering

Freshman Year

<i>First Semester</i>		Rec.	Lab.	Cr.
Eng.	1. Freshman Composition	3	+	0 3
Math.	61. Engineering Mathematics	5	+	0 5
Rel.	1. The Bible†	3	+	0 3
Chem.	51. General Chemistry	3	+	2 4
C. E.	1. Engineering Lectures	1	+	1 1
C. E.	11. Engineering Drawing	0	+	9 3
				19

<i>Second Semester</i>		Rec.	Lab.	Cr.
Eng.	2. Freshman Composition	3	+	0 3
Math.	62. Engineering Mathematics	5	+	0 5
Chem.	54. Inorganic Chemistry	3	+	0 3
Chem.	60. Qualitative Analysis	0	+	9 3
C. E.	18. Descriptive Geometry	0	+	9 3
				17

†This course is required of all students except those who have received exemption from the Committee on Admissions and Degrees.

Sophomore Year				Rec.	Lab.	Cr.
<i>First Semester</i>						
Math.	111.	Differential Calculus	-----	4	+	0 4
Phys.	61.	Technical Physics	-----	3	+	6 5
Chem.	109.	Quantitative Analysis, Volumetric	-----	2	+	6 4
C. E.	57.	Engineering Drawing	-----	2	+	0 2
M. E.	59.	Machine Shop and Forge	-----	0	+	6 2
						17
<i>Second Semester</i>						
C. E.	60.	Applied Mechanics	-----	5	+	0 5
Math.	112.	Integral Calculus	-----	4	+	0 4
Phys.	62.	Technical Physics	-----	3	+	6 5
Phys.	82.	Glass Blowing	-----	0	+	3 1
Chem.	110.	Quantitative Analysis, Gravimetric	-----	1	+	9 4
						19

Note: With the approval of the Dean, the above program may be varied in order that it may agree as far as possible with the first two years of the program in Chemical Engineering in the institution which the student proposes to attend.

II. Civil Engineering

The curriculum in Civil Engineering has two main objectives: (1) It aims to give its graduates sufficient skill in certain technical operations to enable them to be of immediate value to an employer. The graduate who enters civil engineering as a computer, draftsman, instrument man, timekeeper, or inspector should be able to do creditable work. (2) It aims to train men to analyze engineering problems scientifically and reach sound conclusions about them.

Civil engineering graduates at once begin work that will qualify them as surveyors, topographical engineers, drainage and irrigation engineers, sanitary engineers, highway engineers, railway engineers, contractors, builders, etc. Furthermore, many enter some service of the Government, such as the Geological Survey, the Coast and Geodetic Survey, the Bureau of Reclamation, the Supervising Architects' Office, the Bureau of Public Roads, some branch of the Mississippi River Commission, etc.

The Curriculum of Civil Engineering (Leading to the degree of Bachelor of Science)

Freshman Year				Rec.	Lab.	Cr.
<i>First Semester</i>						
Chem.	51.	General Chemistry	-----	3	+	2 4
Eng.	1.	Freshman Composition	-----	3	+	0 3
Math.	61.	Engineering Mathematics	-----	5	+	0 5
Rel.	1.	The Bible†	-----	3	+	0 3
C. E.	1.	Engineering Lectures	-----	1	+	1 1
C. E.	11.	Engineering Drawing	-----	0	+	9 3
						19
<i>Second Semester</i>						
Chem.	56.	Inorganic Chemistry	-----	3	+	3 4
Eng.	2.	Freshman Composition	-----	3	+	0 3
Math.	62.	Engineering Mathematics	-----	5	+	0 5
C. E.	16.	Plane Surveying	-----	1	+	6 3
C. E.	18.	Descriptive Geometry	-----	0	+	9 3
						18

†This course is required of all students except those who have received exemption from the Committee on Admissions and Degrees.

Sophomore Year

<i>First Semester</i>			Rec.	Lab.	Cr.	
Econ.	51.	Principles of Economics-----	3	+	0	3
Math.	111.	Differential Calculus -----	4	+	0	4
Phys.	61.	Technical Physics -----	3	+	6	5
C. E.	13.	Engineering Problems-----	0	+	3	1
C. E.	57.	Engineering Drawing -----	2	+	0	2
C. E.	61.	Topographic Surveying -----	2	+	6	4
						19

<i>Second Semester</i>			Rec.	Lab.	Cr.	
Econ.	52.	Principles of Economics -----	3	+	0	3
Math.	112.	Integral Calculus -----	4	+	0	4
Phys.	62.	Technical Physics -----	3	+	6	5
C. E.	60.	Applied Mechanics -----	5	+	0	5
C. E.	62.	Topographic Surveying -----	0	+	3	1
						18

Junior Year

First Semester			Rec.	Lab.	Cr.	
E. E.	107.	Electrical Circuits and Machinery-----	3	+	3	4
C. E.	107.	Curves and Earthwork-----	2	+	3	3
C. E.	115.	Graphics-----	0	+	6	2
C. E.	131.	Mechanics of Materials-----	5	+	0	5
C. E.	135.	Water Supply-----	2	+	3	3
						17

<i>Second Semester</i>			Rec.	Lab.	Cr.	
Bot.	140.	Bacteriology, 2+4, Cr. 4, or				
E. E.	108.	Electrical Circuits and Machinery-----	3	+	3	4
C. E.	116.	Stresses -----	5	+	0	5
C. E.	126.	Roads and Pavements -----	3	+	6	5
C. E.	132.	Materials and Materials Testing-----	3	+	3	4
						18

Senior Year

<i>First Semester</i>			Rec.	Lab.	Cr.	
C. E. 165.	Transportation Systems	-----	4	+	0	4
C. E. 155.	Bridge Design	-----	1	+	12	5
C. E. 161.	Sewerage	-----	3	+	3	4
C. E. 163.	Reinforced Concrete	-----	3	+	3	4
						17

<i>Second Semester</i>			Rec.	Lab.	Cr.	
C. E.	166.	Masonry and Foundations_____	2	+	0	2
C. E.	154.	Hydraulics _____	2	+	3	3
C. E.	156.	Structural Design _____	0	+	9	3
C. E.	164.	Reinforced Concrete _____	3	+	3	4
C. E.	170.	Engineering Economics _____	3	+	0	3
C. E.	180.	Contracts and Specifications_____	3	+	0	3
						<hr/> 18

III. Commercial Engineering

The curriculum in Commercial Engineering has been established because of the need for men who are acquainted not only with engineering problems but also with those of finance, production, and distribution, or of organization,

administration, and management. The need arises from the fact that vexing questions which involve both engineering and business management for their solution are common to all industrial or business organizations. Such problems, for instance, confront the purchasing department, the specifications department, the employment manager, the works manager, the production engineer, the planning department, the business manager, the accountant and auditor, the advertising manager, the sales manager, the general agent, and the special representative. There is need then for a commercial engineer whose education and training will enable him effectively to cooperate with engineers in other fields and intelligently to bring to bear upon any problem his special knowledge of business management, so that, by combined effort, the most valuable solution may be found.

In the following curriculum, the fundamental courses of engineering predominate in the junior-college years, whereas commercial and business subjects are stressed in the senior-college years.

The Curriculum in Commercial Engineering

(Leading to the degree of Bachelor of Science)

Freshman Year

The courses for the freshman year are the same as those prescribed for students in Civil Engineering.

Sophomore Year

<i>First Semester</i>		Rec.	Lab.	Cr.
Phys. 61.	Technical Physics -----	3	+	6 5
M. E. 61.	Machine Shop -----	0	+	9 3
Math. 111.	Differential Calculus -----	4	+	0 4
B. M. 41.	Accounting Principles -----	3	+	0 3
Econ. 51.	Principles of Economics -----	3	+	0 3
C.E. 13.	Engineering Problems -----	0	+	3 1
				<hr/>
				19

<i>Second Semester</i>		Rec.	Lab.	Cr.
Phys. 62.	Technical Physics -----	3	+	6 5
Math. 112.	Integral Calculus -----	4	+	0 4
B. M. 42.	Accounting Principles -----	3	+	0 3
Econ. 52.	Principles of Economics -----	3	+	0 3
				<hr/>
				15

Junior Year

<i>First Semester</i>		Rec.	Lab.	Cr.
E. E. 107.	Electrical Circuits and Machinery -----	3	+	3 4
M. E. 107.	Heat Engines -----	4	+	3 5
C. E. 135.	Water Supply -----	2	+	3 3
B. M. 51.	Intermediate Accounting -----	3	+	0 3
B. M. 105.	Business Finance -----	3	+	0 3
				<hr/>
				18

<i>Second Semester</i>		Rec.	Lab.	Cr.
C. E. 60.	Applied Mechanics -----	5	+	0 5
E. E. 180.	Electrical Circuits and Machinery -----	3	+	3 4
M. E. 108.	Heat Engines -----	4	+	3 5
B. M. 52.	Cost Accounting or -----			
B. M. 162.	Speculation and Investments -----	3	+	0 3
				<hr/>
				17

Senior Year

<i>First Semester</i>			Rec.	Lab.	Cr.
C. E. 115.	Graphics	-----	0	+	6 2
C. E. 131.	Mechanics of Materials	-----	5	+	0 5
B. M. 131.	Business Law	-----	3	+	0 3
Econ. 143.	Business and Government	-----	3	+	0 3
B. M. 121.	Principles of Marketing or				
Econ. 141.	Labor Problems	-----	3	+	0 3
Eng. 81.	Public Speaking	-----	3	+	0 3
					19

Second Semester

<i>Second Semester</i>		Rec.	Lab.	Cr.
C. E. 132.	Materials and Materials Testing -----	3	+	3 4
C. E. 154.	Hydraulics -----	2	+	3 3
C. E. 170.	Engineering Economics -----	3	+	0 3
B. M. 132.	Business Law -----	3	+	0 3
B. M. 152.	Business Organization and Management -----	3	+	0 3
Econ. 152.	Money and Banking -----	3	+	0 3
				<hr/> 19

IV. Electrical Engineering

The curriculum in Electrical Engineering affords the student a thorough training in the fundamental principles of mechanics and electricity. In common with other divisions, the courses of the first two years include such fundamental studies as English, mathematics, chemistry, physics, drawing, shop work, and surveying. Specialization begins in the sophomore year with the study of electricity in Physics and in Elements of Electricity. The professional studies are concentrated in the junior and senior years.

All classroom work in Electrical Engineering is paralleled by thorough courses in shops and laboratory. Here the student not only acquires a working knowledge of electrical instruments and machines, but also employs them in definite tests, and thus applies the principles in studies in the classroom to practical problems in the laboratory. Special effort is made in all the work to develop initiative and independent thinking.

According to their particular interests and aptitudes, graduates from the curriculum in Electrical Engineering engage in the following types of engineering work: research, design, maintenance, operating, construction, and sales. The majority enter the employment of industries and corporations that own and operate electric lighting plants, electric railway, electric power transmission, or telephone plants, in the expectation of ultimately becoming superintendents, chief engineers, managers, or owners. They may also enter the employment of builders of electrical plants, or of manufacturers of electrical machinery. Finally, a number of the graduates may secure positions as administrators or teachers in engineering colleges.

The Curriculum in Electrical Engineering
(Leading to the degree of Bachelor of Science)

Freshman Year

The courses for the freshman year are the same as those prescribed for students in Civil Engineering.

Sophomore Year

<i>First Semester</i>			Rec.	Lab.	Cr.
Math. 111.	Differential Calculus	-----	4	+	0 4
Phys. 61.	Technical Physics	-----	3	+	6 5
C. E. 13.	Engineering Problems	-----	0	+	3 1
C. E. 57.	Engineering Drawing	-----	2	+	0 2
C. E. 59.	Machine Shop and Forge	-----	0	+	6 2
M. E. 51.	Mechanisms	-----	1	+	6 3
					17

<i>Second Semester</i>		Rec.	Lab.	Cr.
Math. 112.	Integral Calculus -----	4	+	0 4
Phys. 62.	Technical Physics -----	3	+	6 5
C. E. 60.	Applied Mechanics -----	5	+	0 5
E. E. 52.	Elements of Electricity -----	3	+	3 4
				<hr/> 18

		Junior Year		
<i>First Semester</i>		Rec.	Lab.	Cr.
Math. 171.	Differential Equations -----	3	+	0 3
Phys. 133.	Electrical and Magnetic Measurements -----	1	+	6 3
C. E. 131.	Mechanics of Materials -----	5	+	0 5
E. E. 109.	D. C. Machinery -----	5	+	0 5
E. E. 113.	D. C. Laboratory -----	0	+	6 2
				<hr/> 18

<i>Second Semester</i>		Rec.	Lab.	Cr.
Math. 172.	Differential Equations -----	3	+	0 3
C. E. 132.	Materials and Materials Testing -----	3	+	3 4
C. E. 154.	Hydraulics -----	2	+	3 3
C. E. 180.	Contracts and Specifications -----	3	+	0 3
E. E. 114.	D. C. Laboratory -----	0	+	6 2
E. E. 116.	A. C. Theory -----	3	+	0 3
				<hr/> 18

		Senior Year		
<i>First Semester</i>		Rec.	Lab.	Cr.
M. E. 107.	Heat Engines -----	4	+	3 5
M. E. 161.	Factory Management -----	3	+	0 3
E. E. 151.	A. C. Machinery -----	5	+	0 5
E. E. 153.	A. C. Laboratory -----	0	+	6 2
E. E. 167.	Communication -----	3	+	0 3
				<hr/> 18

<i>Second Semester</i>		Rec.	Lab.	Cr.
C. E. 170.	Engineering Economics -----	3	+	0 3
M. E. 108.	Heat Engines -----	4	+	3 5
E. E. 152.	A. C. Machinery -----	5	+	0 5
E. E. 154.	A. C. Laboratory -----	0	+	6 2
E. E. 168.	Communication -----	3	+	0 3
				<hr/> 18

V. Mechanical Engineering

The curriculum in Mechanical Engineering is designed: (1) to train students in those technical and scientific subjects in which the engineer must be well grounded; (2) to permit students to specialize in the field of mechanical engineering. Special stress is laid upon the following items: preparation of the necessary working drawings and moulds; work in forge, foundry, and machine shop; and familiarity with the operation of power and electric light plants, and with the construction of power systems. This practical work is accompanied by instruction in such subjects as heat engineering, thermodynamics, steam and gas engineering, refrigeration, heating, and ventilating.

The curriculum is designed to prepare men to become designing, production, and sales engineers, and managers of manufacturing enterprises; designing, and operating engineers of mechanical equipment for hotels, office buildings, and residences; and specialists in the combustion of fuels in lubrication, and in metallography for government research bureaus or for large corporations.

The Curriculum in Mechanical Engineering
(Leading to the degree of Bachelor of Science)

Freshman Year

The courses for the freshman year are the same as those prescribed for the students in Civil Engineering.

Sophomore Year

<i>First Semester</i>			Rec.	Lab.	Cr.	
Math.	111.	Differential Calculus -----	4	+	0	4
Phys.	61.	Technical Physics -----	3	+	6	5
M. E.	51.	Mechanisms -----	1	+	6	3
C. E.	13.	Engineering Problems -----	0	+	3	1
C. E.	57.	Engineering Drawing -----	2	+	0	2
M. E.	61.	Machine Shop -----	0	+	9	3
						<hr/> 18

<i>Second Semester</i>			Rec.	Lab.	Cr.	
Math.	112.	Integral Calculus -----	4	+	0	4
Phys.	62.	Technical Physics -----	3	+	6	5
C. E.	60.	Applied Mechanics -----	5	+	0	5
M. E.	54.	Elements of Pattern Making -----	0	+	6	2
M. E.	60.	Foundry -----	0	+	6	2
						<hr/> 18

Junior Year

<i>First Semester</i>			Rec.	Lab.	Cr.	
C. E.	131.	Mechanics of Materials-----	5	+	0	5
E. E.	107.	Electrical Circuits and Machinery-----	3	+	3	4
M. E.	107.	Heat Engines -----	4	+	3	5
M. E.	111.	Metallography and Heat Treatment-----	1	+	9	4
						<hr/> 18

<i>Second Semester</i>			Rec.	Lab.	Cr.	
C. E.	132.	Materials and Materials Testing-----	3	+	3	4
E. E.	108.	Electrical Circuits and Machinery-----	3	+	3	4
M. E.	108.	Heat Engines -----	4	+	3	5
M. E.	118.	Machine Design -----	2	+	6	4
						<hr/> 17

Senior Year

<i>First Semester</i>			Rec.	Lab.	Cr.	
C. E.	115.	Graphics -----	0	+	6	2
M. E.	121.	Machine Design -----	2	+	6	4
M. E.	153.	Heat Power Engineering -----	4	+	3	5
M. E.	161.	Factory Management -----	3	+	0	3
M. E.	175.	Heating, Ventilating and Air Conditioning -----	3	+	0	3
						<hr/> 17

<i>Second Semester</i>			Rec.	Lab.	Cr.	
C. E. 154.	Hydraulics	-----	2	+	3	3
C. E. 170.	Engineering Economics	-----	3	+	0	3
C. E. 180.	Contracts and Specifications	-----	3	+	0	3
M. E. 154.	Heat Power Engineering	-----	3	+	3	4
M. E. 164.	Engine Design	-----	1	+	6	3
M. E. 176.	Refrigeration	-----	3	+	0	3
						<hr/> 19

The Department of Civil Engineering

Professor Moody and Mr. Mallory

1. **ENGINEERING LECTURES.** Sem. 1. 1+1, Cr. 1.
A series of lectures by members of the engineering faculty and invited speakers. Subjects considered: the field of engineering; choice of major; studying and note-taking; the use of the library.
11. **ENGINEERING DRAWING.** Sem. 1. 0+9, Cr. 3.
Lettering, care and use of instruments, principles of orthographic projection, common engineering geometry, working drawings, special sections, common fasteners, tracing, and duplicating.
13. **ENGINEERING PROBLEMS.** Sem. 1. 0+3, Cr. 1.
Typical elementary problems from various fields to suggest to the student the nature and scope of engineering work. Lectures and problems are designed as an orientation course. Instruction in theory and use of slide rule included.
16. **PLANE SURVEYING.** Sem. 2. 1+6, Cr. 3.
Field and drafting-room work with recitations covering the fundamentals and the practice of plane surveying. Required of all engineering students except those in chemical engineering.
Prerequisite: Mathematics 61.
Laboratory fee, \$6.00; deposit, \$4.00.
18. **DESCRIPTIVE GEOMETRY.** Sem. 2. 0+9, Cr. 3.
A study of points, lines, and planes in space including intersection of solids, development of surfaces, and the principles of shades and shadows. Emphasis is placed on the solution of practical problems, involving the theory covered.
Prerequisite: C. E. 11.
57. **ENGINEERING DRAWING.** Sem. 1. 2+0, Cr. 2.
Shop sketching, pictorial representation, including isometric, cabinet and perspective drawing, platting, graphs, topographical maps, simple layout of structural steel, electrical symbols, and architectural conventions.
Prerequisite: C. E. 11.
60. **APPLIED MECHANICS.** Sem. 2. 5+0, Cr. 5.
Statics and kinetics. Composition and resolution of forces; principles of equilibrium of rigid bodies.
Prerequisite: Math. 111 and 112, or Math. 112 concurrently with C. E. 60.
61. **TOPOGRAPHIC SURVEYING.** Sem. 1. 2+6, Cr. 4.
Field and drafting-room work with recitations, including the theory and use of plane table, stadia, sextant, and solar attachment to the transit, in triangulation, city surveying, topographic surveying, and hydrographic surveying.
Prerequisite: C. E. 16.
Laboratory fee, \$6.00; deposit, \$4.00.
62. **TOPOGRAPHIC SURVEYING.** Sem. 2. 0+3, Cr. 1.
A continuation of C. E. 61.
Prerequisite: C. E. 61.
107. **CURVES AND EARTHWORK.** Sem. 1. 2+3, Cr. 3.
Recitations and field work in simple, compound, and transition curves as related to railways, highways, and canals. Sufficient field and office work is given to acquaint the student thoroughly with the best modern practice in the computation of earthwork quantities, including the use of such equipment as the polar planimeter, calculators, graphs, tables, and the mass diagram.
Prerequisite: C. E. 16.
Laboratory fee, \$3.00; deposit, \$4.00.
115. **GRAPHICS.** Each Sem. 0+6, Cr. 2.
Graphical determination of stresses in roof and bridge trusses under action of static and moving loads; also cranes, derricks and similar structures.
Prerequisite: C. E. 60.
116. **STRESSES.** Sem. 2. 5+0, Cr. 5.
The determination of reactions, moments, and shears in beams and simple trusses. Stresses in roof and bridge trusses under static and dynamic loads by the algebraic method, with some attention to the graphical method.
Prerequisite: C. E. 60 and C. E. 115.

126. **ROADS AND PAVEMENTS.** Sem. 2. 3+6, Cr. 5.
Design, construction, and maintenance of various types of road and street wearing courses and foundations. Particular attention is given to problems of drainage, grade curves, widths, etc. Following Government practice, complete surveys and plans are made for specific highway improvement, and quantities and costs are estimated.
Prerequisite: C. E. 16.
Laboratory fee, \$6.00; deposit, \$4.00.
131. **MECHANICS OF MATERIALS.** Sem. 1. 5+0, Cr. 5.
Principles of mechanics applied to structural members and engineering materials; mathematical theory of elasticity; interpretation of results of actual tests of materials; study of shapes and other products given in the steel company's hand-books.
Prerequisite: C. E. 60.
132. **MATERIALS AND MATERIALS TESTING.** Sem. 2. 3+3, Cr. 4.
A study of materials commonly used in engineering. Study of theory, construction, and use of testing machines. The methods of commercial testing; determination of the properties of construction materials by mechanical tests. The effect of heat upon metals is investigated and the S. A. E. specifications are studied.
Prerequisite: C. E. 131.
Laboratory fee, \$3.00; deposit, \$4.00.
135. **WATER SUPPLY.** Sem. 1. 2+3, Cr. 3.
Sources and purity of water supplies and works for the distribution of water. The design of a water supply system from given data.
154. **HYDRAULICS.** Sem. 2. 2+3, Cr. 3.
Lectures, recitations, and laboratory work on the laws of motion of fluids; covering flow through orifices, open channels, and weirs. Also hydrostatic pressure on dams and gates; the theory of impulse wheels, turbines, and centrifugal pumps; the fundamentals underlying hydraulic development.
Prerequisite: Math. 112.
Laboratory fee, \$3.00; deposit, \$4.00.
155. **BRIDGE DESIGN.** Sem. 1. 1+12, Cr. 5.
The design of a plate girder bridge and design, with all computations and plans, of a simple railroad truss bridge. General detail plans show location of all rivets, make-up and relation of all members and connections. Final report gives full list of shapes, plates, etc., and a classified analysis of the estimated weight of the entire structure.
Prerequisite: C. E. 115 and 116.
156. **STRUCTURAL DESIGN.** Sem. 2. 0+9, Cr. 3.
General principles of structural design. Girders, columns, and roof trusses. Design of steel frame buildings.
Prerequisite: C. E. 116.
161. **SEWERAGE.** Sem. 1. 3+3, Cr. 4.
The principles and practice in the design and construction of storm, sanitary, and combined systems of sewers; sewage treatment and disposal, with construction problems on the details of plants for same.
163. **REINFORCED CONCRETE.** Sem. 1. 3+3, Cr. 4.
Materials for concrete; the mixing, placing and curing of concrete; properties of plain concrete; theory of reinforced concrete.
Prerequisite: C. E. 131.
Laboratory fee, \$3.00; deposit, \$4.00.
164. **REINFORCED CONCRETE.** Sem. 2. 3+3, Cr. 4.
The design of retaining walls, dams, and girder bridges. The complete design, with working drawings and reinforcing schedules, of a reinforced concrete building.
Prerequisite: C. E. 163.
Laboratory fee, \$3.00; deposit, \$4.00.
165. **TRANSPORTATION SYSTEMS.** Sem. 1. 4+0, Cr. 4.
Development and relations in railway and highway transportation with some attention to air and inland water transportation. Railway maintenance, highway location, economic comparison, financing and organizing, transportation surveys, regulation and control, coordination.
Prerequisite: Senior standing.
166. **MASONRY AND FOUNDATIONS.** Sem. 2. 2+0, Cr. 2.
Materials for masonry and the methods of using them. Foundation design, pneumatic caissons, the freezing process, piling, cofferdams, pier foundations in open wells, ordinary bridge piers, cylinders and pivot piers, bridge abutments, spread footings for building foundations.

170. **ENGINEERING ECONOMICS.** Sem. 2. 3+0, Cr. 3.
A study of the fundamental principles of economics and their application to engineering structures and operations.
180. **CONTRACTS AND SPECIFICATIONS.** Sem. 2. 3+0, Cr. 3.
Legal, contractual, and personal engineering relations; development of contract principles; preparation of engineering contracts.

The Department of Electrical Engineering

Assistant Professor Lauritzen and Mr. Mallory

52. **ELEMENTS OF ELECTRICITY.** Sem. 2. 3+3, Cr. 4.
An elementary course in electricity introducing fundamental laws and principles; also units, instruments, induction, resistance, and capacity. Includes practice in illustrative problems.
Prerequisite: Taken concurrently with Math. 112 and Physics 62.
107. **ELECTRICAL CIRCUITS AND MACHINERY.** Sem. 1. 3+3, Cr. 4.
A general course in the study of electric machinery and power, direct current apparatus, generation, measurement and application of electric power. Experimental work on direct circuits, including the use and calibration of instruments and the testing of direct current apparatus. Course is offered to non-electrical engineering students.
Prerequisite: Physics 62, Math. 112.
Laboratory fee, \$3.00; deposit, \$4.00.
108. **ELECTRICAL CIRCUITS AND MACHINERY.** Sem. 2. 3+3, Cr. 4.
A continuation of course 107, with special emphasis on alternating current apparatus and circuits.
Prerequisite: E. E. 107.
Laboratory fee, \$3.00; deposit, \$4.00.
109. **DIRECT CURRENT MACHINERY.** Sem. 1. 5+0, Cr. 5.
A course for junior electrical engineers including the theory of direct current dynamo electric machinery and circuits. Characteristic curves, parallel operation, operating characteristics, theory of commutation, rating, and efficiency.
Prerequisite: E. E. 52.
113. **D. C. LABORATORY.** Sem. 1. 0+6, Cr. 2.
A laboratory course to be taken with E. E. 109. The testing, operating characteristics, and rating of direct current apparatus.
Laboratory fee, \$6.00; deposit, \$4.00.
114. **D. C. LABORATORY.** Sem. 2. 0+6, Cr. 2.
A continuation of E. E. 113.
Prerequisite: E. E. 109.
Laboratory fee, \$6.00; deposit, \$4.00.
116. **ALTERNATING CURRENT THEORY.** Sem. 2. 3+0, Cr. 3.
Study of flux and e. m. f. waves, circuit constants, measurements, vectors, single and polyphase circuits.
Prerequisite: E. E. 109.
151. **ALTERNATING CURRENT MACHINERY.** Sem. 1. 5+0, Cr. 5.
A course for senior electrical engineers including the study of alternating current circuits and machinery. The application of mathematics and graphics to alternating current circuits. Transient and high frequency phenomena. Hysteresis and eddy currents. Measurements of alternating current quantities. Transformers, induction motors, and synchronous machines.
152. **ALTERNATING CURRENT MACHINERY.** Sem. 2. 5+0, Cr. 5.
A continuation of E. E. 151.
Prerequisite: E. E. 151.
153. **A. C. LABORATORY.** Sem. 1. 0+6, Cr. 2.
A laboratory course to be taken with E. E. 151. The testing of alternating current circuits and apparatus. Operating and efficiency tests of transformers and alternating current machinery.
Laboratory fee, \$6.00; deposit, \$4.00.
154. **A. C. LABORATORY.** Sem. 2. 0+6, Cr. 2.
A continuance of E. E. 153.
Prerequisite: E. E. 153.
Laboratory fee, \$6.00; deposit, \$4.00.
167. **COMMUNICATION.** Sem. 1. 3+0, Cr. 3.
The theory of thermionic emission, considered with the characteristics, operation and application of the vacuum tube.
Prerequisite: Senior E. E. or by permission.
168. **COMMUNICATION.** Sem. 2. 3+0, Cr. 3.
Continuation of E. E. 167.

The Department of Mechanical Engineering

Professor Cushman and Assistant Professor Uban

51. **MECHANISMS.** Sem. 1. 1+6, Cr. 3.
A study of the various elemental mechanisms used in machine construction; including instant centers, velocity and velocity diagrams, parallel and straight line motions, belt and pulley layouts, and the design of cams and gears.
54. **ELEMENTS OF PATTERN MAKING.** Sem. 2. 0+6, Cr. 2.
Care and use of woodworking tools and machinery. Practice in the fundamental principles of joinery applied to individual projects. Making of simple patterns in one piece, coring, and split patterns. Rules of shrinkage, clearance, rapping, and finishing allowance.
Laboratory fee, \$6.00; deposit, \$4.00.
59. **MACHINE SHOP AND FORGE.** Sem. 1. 0+6, Cr. 2.
Hand working of metals. Care and operation of common machine tools, as drill presses, lathes, shapers, millers, grinders and saws, simple forging, welding, and heat treating.
Laboratory fee, \$6.00; deposit, \$4.00.
60. **FOUNDRY.** Sem. 2. 0+6, Cr. 2.
The making of bench and floor moulds, green and baked sand cores, aluminum and brass furnace practice and operation. Cupola practice for cast iron with the determination of charges and the composition of the resultant castings.
Laboratory fee, \$6.00; deposit, \$4.00.
61. **MACHINE SHOP.** Sem. 1. 0+9, Cr. 3.
This course completes the work described under No. 59. In addition, particular attention is paid to jigs, fixtures, and automatic machinery as used in manufacturing processes.
Required of Mechanical Engineers.
Laboratory fee, \$6.00; deposit, \$4.00.
107. **HEAT ENGINES.** Sem. 1. 4+3, Cr. 5.
Thermodynamics; the theory of gases and vapors, their laws and behavior; engine and compressor cycles. The types, mechanical features, and performance of air compressors and engines, and gas, oil, and vapor piston engines. The laboratory work includes tests of bearings, belts, and other mechanical equipment, the testing of oils, a study of carburetors and fuel pumps, and of valves and valve gears for internal combustion engines. Internal combustion engine and air engine tests are made.
Laboratory fee, \$3.00; deposit, \$4.00.
108. **HEAT ENGINES.** Sem. 2. 4+3, Cr. 5.
A continuation of M. E. 107. Includes the study of governors, steam engine valve gears, turbines, fuels and combustion, boilers, furnaces, grates, pumps, condensers, and other heat exchanges used in power plants. The laboratory work includes further tests on internal combustion engines, steam engine valve setting, flue gas analysis, the steam engine indicator, the steam calorimeter; and tests on air compressors, steam engines, and boilers.
Laboratory fee, \$3.00; deposit, \$4.00.
111. **METALLOGRAPHY AND HEAT TREATMENT OF METALS.** Sem. 1. 1+9, Cr. 4.
Physical metallography of ferrous, non-ferrous, and alloy metals. Microscopic study and physical testing of a representative variety of specimens. Laboratory experiments in heat treatment of metals and alloys. Annealing, hardening, normalizing, spheroidizing, and carburizing and their effects on such physical characteristics as tensile strength, structure, hardness, and ductility.
Laboratory fee, \$6.00; deposit, \$4.00.
118. **MACHINE DESIGN.** Sem. 2. 2+6, Cr. 4.
Theory of machine and applied problems in design of fly-wheels, belts, ropes, chains, brakes, clutches, cylinders, riveted joints, keys, cotter pins, fastenings, shafts, couplings, journals, bearings, spur gearings, and springs.
Prerequisite: M. E. 51.
121. **MACHINE DESIGN.** Sem. 1. 2+6, Cr. 4.
Continuation of M. E. 118, but more advanced in character. Covers analysis of forces and design of parts, and considers wear, dynamic forces, critical speeds, and the application of the theory of elasticity.
153. **HEAT POWER ENGINEERING.** Sem. 1. 4+3, Cr. 5.
Particular attention is paid in this course to the design, operation, and special features of the larger types of power equipment and plants. The different types of prime movers are compared with the view of developing the principles that underlie an intelligent selection for a particular use. The uniflow engine, the turbine, and the Diesel engine are studied in some detail, and a study is made of heat transmissions. The laboratory work includes the analysis of fuels and the testing of fans and blowers.
Laboratory fee, \$3.00; deposit, \$4.00.

154. HEAT POWER ENGINEERING. Sem. 2. 3+3, Cr. 4.

A continuation of M. E. 153. Boilers, furnaces, pumps, condensers, feed water heaters, economizers, air preheaters, evaporators, feed water treatment, instruments, power plant finance and economics. The lay-out of power plants of various sizes is studied. The laboratory work includes tests and heat balances of actual power plants, including one on a large modern Northern Indiana Public Service Company station.

Laboratory fee, \$3.00; deposit, \$4.00.

161. FACTORY MANAGEMENT. Sem. 1. 3+0, Cr. 3.

Organization and lay-out; selection, placement, and wage payment of laborers; scientific management in production.

Prerequisite: Senior standing.

164. ENGINE DESIGN. Sem. 1. 1+6, Cr. 3.

Design and details of steam and internal combustion engines.

173. HEATING, VENTILATING AND AIR CONDITIONING. Sem. 1. 3+0, Cr. 3.

A study of methods of heating and ventilating residences, public buildings, and industrial plants. The ventilation of tunnels, shafts, and mines receives some attention. During the last few weeks a small heating and ventilating plant is designed.

176. REFRIGERATION. Sem. 2. 3+0, Cr. 3.

Theory and design of refrigeration and air conditioning systems.

PART VI

THE COLLEGE OF PHARMACY

The College of Pharmacy

General Information

History

The College of Pharmacy, which graduated its first class in 1893, offered its students at that time a fifty weeks' course for the purpose of giving the men in the profession a slight knowledge of the science of pharmacy. Meanwhile, the tremendous advances in the fields of medicine, chemistry, and allied sciences made it necessary for the pharmacist to engage in a more extensive study of his work in order to retain his place in the community. This need was met by organizing curricula of two and three years' duration. Recent surveys of pharmaceutical education, however, indicate that a curriculum of at least four years is now indispensable. This fact led the College of Pharmacy to introduce such a curriculum, as the minimum, beginning in the academic year 1930-1931; and since the academic year 1932-1933, all the recognized schools and colleges of pharmacy in the United States have established four-year curricula as the minimum.

Purpose

A recent survey of pharmacy made by an impartial observer states that pharmacy is a profession as well as a business. Recognizing the truth of this observation, the College of Pharmacy aims to give its students: (1) sound instruction in the fundamental sciences with which a pharmacist has to deal, (2) thorough training in the practical lines of his profession, and (3) as broad a cultural background as is possible within the prescribed time. Such training should serve to give him high professional and business standing in the community.

Recognition

The College holds membership in the American Association of Colleges of Pharmacy. The object of the Association is to promote the interests of pharmaceutical education. All schools holding membership must maintain certain minimum requirements for curriculum, equipment, entrance, and graduation. It has been the influence of this association which has caused pharmacy curricula to change from time to time.

Equipment

Eight laboratories in Science Hall and the Biology Building furnish ample facilities for the students to do their practical work. The main chemical laboratory and the pharmacy laboratory are each able to accommodate several hundred students. The dispensing laboratory is well supplied with modern prescription equipment. The materia-medica room is fitted with individual desks and lockers for pharmacognosy and contains display-cabinets filled with samples of all the official crude drugs, also chemicals and pharmaceutical apparatus. There are also special laboratories for Bacteriology, Botany, and Physiology. A good working library, which contains the latest publications in the pharmaceutical field, is maintained in connection with the main University library.

Valparaiso University Pharmaceutical Association

The Valparaiso University Pharmaceutical Association was organized as an extra-curricular activity to foster student interest in the scientific and business aspects of pharmacy. All pharmacy students are eligible for membership. The programs consist of lectures by men connected with pharmacy, movies on related subjects, and occasional participation by the members. Among the duties of the Association are the arrangement of the annual inspection trips to the various large pharmaceutical manufacturers and of the annual spring picnic and other social events.

Field Trips

The faculty annually arranges inspection trips to the pharmaceutical manufacturing establishments in such cities as Chicago, Indianapolis, and Detroit, so that the students may have some understanding of the preparation of chemicals and galenicals upon a commercial scale.

Admission

The requirements for admission to the College of Pharmacy are the same as those of the College of Liberal Arts, except that the minimum age for entrance is 17 years.

Graduation

The degree of Bachelor of Science in Pharmacy requires the satisfactory completion of 135 credit hours of the four-year curriculum with at least 135 quality points. All candidates for the degree of Bachelor of Science in Pharmacy must spend at least their last year (thirty-six weeks) in residence at Valparaiso University.

Students entering with advanced standing from non-pharmacy schools must complete at least three full years of credit in a school of pharmacy to be eligible for the degree of Bachelor of Science in Pharmacy.

Pre-Pharmacy Program

The College of Liberal Arts offers a one-year pre-pharmacy program to meet the entrance requirement of those colleges or schools of pharmacy which require one year of prescribed work in liberal arts for admission to the specified work in pharmacy.

The Dean of the College of Pharmacy should be consulted concerning this program.

The Four-Year Curriculum

The college offers a four-year curriculum leading to the degree of Bachelor of Science in Pharmacy (B.S. in Pharmacy).

This curriculum prepares the student: (1) for the duties of the retail pharmacist, (2) for such positions as those of hospital pharmacist and analytical chemist in pharmaceutical and food laboratories, and (3) for employment in various branches of government service. The courses offered in the curriculum include not only those of the fundamental sciences involved in the study of pharmacy, but also such as are of general cultural value.

The Four-Year Curriculum

(Leading to the degree of Bachelor of Science in Pharmacy)

			Freshman Year			
<i>First Semester</i>			Class	Lab.	Cr.	
Pharm.	1.	Pharmaceutical Technique -----	2	+	3	3
English	1.	Freshman Composition -----	3	+	0	3
Chem.	51.	General Chemistry -----	3	+	2	4
Botany	51.	General Botany -----	2	+	4	4
Math.	51.	College Algebra -----	4	+	0	4
						18

			Class	Lab.	Cr.	
<i>Second Semester</i>						
Pharm.	28.	Pharmaceutical Mathematics -----	2	+	0	2
Pharm.	30.	Pharmaceutical Latin -----	2	+	0	2
English	2.	Freshman Composition -----	3	+	0	3
Chem.	54.	Inorganic Chemistry -----	3	+	0	3
Chem.	60.	Qualitative Analysis -----	0	+	9	3
Botany	52.	General Botany -----	2	+	4	4

VALPARAISO UNIVERSITY

Sophomore Year

First Semester			Class	Lab.	Cr.	
Pharm.	75.	Operative Pharmacy-----	2	+	3	3
Pharm.	81.	Theory of Pharmacy: Inorganic-----	3	+	0	3
Chem.	101.	Organic Chemistry -----	3	+	6	5
Phys.	51.	General Physics -----	3	+	3	4
Econ.	51.	Principles of Economics-----	3	+	0	3
						18

<i>Second Semester</i>			Class	Lab.	Cr.	
Pharm.	76.	Operative Pharmacy -----	2	+	3	3
Rel.	2.	Jesus and His Teachings*+-----	3	+	0	3
Chem.	102.	Organic Chemistry -----	2	+	6	4
Phys.	52.	General Physics -----	3	+	3	4
Econ.	52.	Principles of Economics-----	3	+	0	3
						17

Junior Year

<i>First Semester</i>		Class	Lab.	Cr.	
Pharm. 103.	Pharmacognosy -----	3	+	3	4
Pharm. 111.	Elementary Dispensing -----	1	+	3	2
Chem. 109.	Quantitative Analysis, Volumetric -----	2	+	6	4
Zool. 75.	Elementary Physiology -----	3	+	3	4
Rel. 1.	The Bible*† -----	3	+	0	3
					17

<i>Second Semester</i>		Class	Lab.	Cr.	
Pharm. 112.	Elementary Dispensing -----	1	+	3	2
Pharm. 104.	Pharmacognosy -----	3	+	3	4
Chem. 164.	History of Pharmacy and Chemistry or				
Pharm. 148.	Pharmaceutical Jurisprudence -----	2	+	0	2
Pharm. 140.	Theory of Pharmacy: Organic -----	4	+	0	4
Botany 140.	Bacteriology -----	2	+	4	4
					16

Senior Year

<i>First Semester</i>		Class	Lab.	Cr.	
Pharm. 155.	Advanced Dispensing -----	1	+	3	2
Pharm. 151.	Pharmacology, Toxicology, and Therapeutics--	3	+	0	3
Pharm. 161.	Pharmacological Standardization -----	0	+	3	1
Pharm. 177.	Pharmacopoeial Assay -----	2	+	6	4
Pharm. 185.	Pharmacopoeial Chemistry -----	3	+	0	3
Pharm. 123.	Lettering -----	0	+	2	1
Zool. 155.	Public Health -----	3	+	0	3
					17

*These courses are required of all students except those who have received exemption from the Committee on Admissions and Degrees.

†Recommended electives for those granted exemption from courses in religion: General Psychology 51, Introduction to the Study of Human Society 51-52, Ethics 105, Philosophy 101, 102, 141, 142, Principles of Marketing 121, Market Administration 122, Quantitative Analysis, Gravimetric 110, Elementary Physical and Theoretical Chemistry 181, Foreign Language.

Second Semester

Second Semester		Class	Lab.	Cr.	
Pharm. 156.	Advanced Dispensing -----	1	+	3	2
Pharm. 152.	Pharmacology, Toxicology and Therapeutics--	3	+	0	3
Chem. 164.	History of Chemistry and Pharmacy or				
Pharm. 148.	Pharmaceutical Jurisprudence-----	2	+	0	2
Pharm. 180.	U. S. P. and N. F.-----	2	+	0	2
Pharm. 124.	Lettering -----	0	+	2	1
Chem. 138.	Bio-Chemistry -----	2	+	3	3
Rel. 151.	The Church and Her Work***-----	2	+	0	2

15

Courses of Instruction**Pharmacy**

Professor Lofgren, Associate Professor Harwood,

Mr. Zimmerman, Mr. Lien

1. PHARMACEUTICAL TECHNIQUE. Sem. 1. 2+3, Cr. 3.

A course dealing with the fundamental principles of pharmaceutical operation.

Laboratory fee, \$6.00; deposit, \$4.00.

Lofgren, Lien

28. PHARMACEUTICAL MATHEMATICS. Sem. 2. 2+0, Cr. 2.

A course in mathematics dealing with problems peculiar to pharmacy, such as weights, measures, specific gravity, alligation, proportion, percentage, profits, and costs.

Harwood

30. PHARMACEUTICAL LATIN. Sem. 2. 2+0, Cr. 2.

A course in beginning Latin emphasizing the terms used in writing and interpreting physicians' prescriptions.

Harwood

75-76. OPERATIVE PHARMACY. Yr. Each Semester. 2+3, Cr. 3.

An exhaustive study of the galenical and inorganic chemical preparations of the United States Pharmacopoeia and the National Formulary which are not ordinarily made extemporaneously by the pharmacist, but are usually purchased from the manufacturer. Examples of the various types of preparations will be made in the laboratory.

Prerequisite: Pharmacy 1.

Laboratory fee, \$6.00 per semester; deposit, \$4.00.

Lofgren

111-112. ELEMENTARY DISPENSING. Yr. Each Semester. 1+3, Cr. 2.

An exhaustive study of the preparations found in the United States Pharmacopoeia and the National Formulary which commonly are made extemporaneously by the pharmacist. Examples of the various kinds of preparations are manufactured in the laboratory.

Prerequisite: Pharmacy 76.

Laboratory fee, \$6.00 per semester; deposit, \$4.00.

Lofgren

123. LETTERING. Each Semester. 0+2, Cr. 1.

The course in lettering provides the student with a knowledge of the evolution of letter forms and the practical application of various alphabets in hand lettering, illumination and commercial art.

Zimmerman

124. LETTERING. Each Semester. 0+2, Cr. 1.

Continuation of Lettering 123.

Prerequisite: Lettering 123.

Zimmerman

148. PHARMACEUTICAL JURISPRUDENCE. Sem. 2. 2+0, Cr. 2.

A study of federal and state laws of interest to the pharmacist, with special emphasis upon his legal responsibilities.

Alternates with Chemistry 146.

Harwood

155-156. ADVANCED DISPENSING. Yr. Each Semester. 1+3, Cr. 2.

A thorough survey of better dispensing practices with emphasis upon neatness, speed, and accuracy. Special stress is placed upon incompatible prescriptions. The laboratory work is the filling of an actual file of physicians' prescriptions.

Prerequisite: Pharmacy 112.

Laboratory fee, \$6.00 per semester; deposit, \$4.00.

Lofgren

**Required of Lutheran students only. Other students take electives.

†Recommended electives for those granted exemption from courses in religion:

General Psychology 51, Introduction to the Study of Human Society 51-52, Ethics 105, Philosophy 101, 102, 141, 142, Principles of Marketing 121, Market Administration 122, Quantitative Analysis, Gravimetric 110, Elementary Physical and Theoretical Chemistry 181, Foreign Language.

180. U. S. P. AND N. F. Sem. 2. 2+0, Cr. 2.

A systematic review of the preparations and crude drugs of the United States Pharmacopoeia and the National Formulary. Lofgren

195-196. ADVANCED PROBLEMS IN PHARMACY OR PHARMACEUTICAL CHEMISTRY. Sem. 1. and 2. 2 to 5 Cr.

A study of advanced problems in manufacturing pharmacy, pharmaceutical assay or pharmaceutical chemistry. Credit and arrangement of schedule is made by members of the pharmacy staff.

Prerequisite: Pharmacy 156 or 177.

Laboratory fee, \$1.50 per credit; deposit, \$4.00.

Pharmacognosy—Pharmacology

Assistant Professor Kaufmann, Professor Lofgren

103-104. PHARMACOGNOSY. Yr. Each Semester. 3+3, Cr. 4.

A study of the sources, preparation, physical and chemical characteristics, active constituents, Latin and common names of crude vegetable, animal, and chemical drugs used medicinally. The laboratory work deals with the macroscopic and microscopic study of the important official vegetable drugs.

Prerequisite: Botany 52.

Laboratory fee, \$5.00.

Kaufmann

151-152. PHARMACOLOGY, TOXICOLOGY, AND THERAPEUTICS. Yr. Each Semester. 3+0, Cr. 3.

A study of the physiological action, toxicity, and therapeutic uses of medicinal substances with special reference to the drugs and preparations of the United States Pharmacopoeia and the National Formulary.

Prerequisite: Pharmacognosy 104, Chemistry 102, Elementary Physiology 75.

Lofgren

161. PHARMACOLOGICAL STANDARDIZATION. Sem. 1. 0+3, Cr. 1.

A laboratory and demonstration course in biological drug assaying with special reference to the methods of the United States Pharmacopoeia.

Prerequisite: Elementary Physiology 75.

Laboratory fee, \$3.00.

Lofgren

Pharmaceutical Chemistry

Associate Professor Harwood

81. THEORY OF PHARMACY: INORGANIC. Sem. 1. 3+0, Cr. 3.

A study of the inorganic chemicals of the United States Pharmacopoeia and the National Formulary stressing their official names, synonyms, pharmaceutical properties and uses.

Prerequisite: Chemistry 54.

Harwood

140. THEORY OF PHARMACY: ORGANIC. Sem. 2. 4+0, Cr. 4.

A study of the organic chemicals of the United States Pharmacopoeia and the National Formulary stressing their official names, synonyms, pharmaceutical properties, and uses.

Prerequisite: Chemistry 102.

Harwood

177. PHARMACOPOEIAL ASSAY. Sem. 1. 2+6, Cr. 4.

A study of the quantitative tests for standardization of drugs and medicines as used in the United States Pharmacopoeia and the National Formulary.

Prerequisite: Chemistry 109.

Laboratory fee, \$6.00; deposit, \$4.00.

Harwood

185. PHARMACOPOEIAL CHEMISTRY. Sem. 1. 3+0, Cr. 3.

A systematic review of the chemistry and properties of the inorganic and organic substances of the United States Pharmacopoeia and the National Formulary.

Harwood

PART VII

THE SCHOOL OF LAW

The School of Law

Purpose

Modern American law is a composite of the common law and legislative and constitutional enactments. This law is the fruit of hundreds of years of development in England and later in America toward the establishment of a system of law which would adequately protect the rights, powers, privileges, and immunities of individuals and suppress personal and public wrongs. Right, justice, and liberty under law are its objectives.

As developed thus far, though many important changes have been made through legislation, this system of law is, primarily, the outgrowth of the decisions of courts in cases that have come before them. The judicial process involves many considerations. Important among these are the consideration which should be given to decisions of former similar cases; the possible effect of pertinent legislative enactments; and the influence which the social interest involved should have upon the decision.

The School of Law seeks to acquaint its students with the principles and rules that have thus been established, without overlooking outstanding local peculiarities of the law as it exists in the various states of the United States and in the federal jurisdiction. The aim is not solely to give information nor is it solely to supply mental training. Discipline in the methods of legal reasoning and analysis is considered of great importance; but this is supplemented by much practical information and by training in the operative functions. The students are acquainted with the ideals and traditions of the profession. He is trained in drawing legal papers. Courses are offered in pleading and trial practice. A practice court is maintained, in which the student must take all the steps required in the preparation and trial of a case. Professional interest of the students is stimulated through lectures by practicing lawyers and by judges. A sane and practical balance between theory and practice is thus attained. Legislative enactments and social influences are not neglected; yet the judicial process through which law takes its final form must necessarily remain the central concern of the School of Law.

Rank of the School of Law

The School is fully approved by the American Bar Association through its Council on Legal Education and Admission to the Bar.

Association of American Law Schools

The School is a member of the Association of American Law Schools, an organization composed of eighty-two law schools in the United States and Canada.

New York Board of Regents

The degree of Bachelor of Laws is approved by the Board of Regents of the University of the State of New York.

North Central Association of Colleges and Secondary Schools

The University of which the School of Law is a part holds membership in the North Central Association of Colleges and Secondary Schools, the accrediting association of the colleges and universities of the Middle West.

General Information

Historical Statement

The School of Law was organized in 1879 by the Honorable Mark L. DeMotte, who remained at its head for nearly thirty years. During that time hundreds of graduates became successful lawyers, and many were given political preferment or judicial honors both in state and nation. Colonel DeMotte retired during the year 1907-1908 because of ill health. His place was taken by Milo J. Bowman, who served as Dean for a period of more than twenty years.

In 1926 the School of Law was moved to the main floor of the Arts-Law Building.

The School of Law was approved by the Council on Legal Education of the American Bar Association May 6, 1929, and was elected a member of the Association of American Law Schools December 28, 1930.

Practice Court

The School maintains a course in practice court, under an instructor who has had experience in the practice of law.

The Law Library

The law library, which consists of about eleven thousand volumes, meets the requirements of all accrediting associations.

The library contains the official reports of the Supreme Court of the United States and those of thirty-seven states up to the reporter system, the National Reporter System complete, all sets of general annotated decisions, full English Reprint of English reports and digests, the United States Code Annotated and earlier compilations of federal statutes, the United States Statutes at Large, state revised statutes or compilations and sessions laws, the American Digest System, state and special digests, citators, twelve legal periodicals, the standard law encyclopedias, and a collection of state trials, legal histories, and treatises on law and jurisprudence.

University Lawyers' Association

The University Lawyers' Association enables the law student to make a more intimate contact with the practical side of the legal profession. This purpose is accomplished by means of a series of lectures given by prominent lawyers and judges who are able to give the student an idea of what he can expect and what will be expected of him when he himself enters the practice of law. This organization has encouraged the law student to become a member of the Junior Bar Association of his state if one is established therein. This gives the student the opportunity and the privilege of making personal contact with the practicing lawyers. The Lawyers' Association has invited the pre-legal students to become associate members. This gives such students an opportunity to become acquainted with legal work before actually entering upon it. All law students are eligible to full membership in the Association.

Curricula

The University offers in the School of Law a three-year curriculum, based on an entrance requirement of two years of college work, leading to the degree of Bachelor of Laws (LL.B.). The University also offers a six-year curriculum, comprising three years of college work and three years of work in law, leading to the degree of Bachelor of Arts (A.B.) and Bachelor of Laws (LL.B.).

Practice and Procedure

The need for training in practice and procedure has been met by courses designed to give skill in the application of law in practice. Attention is therefore directed to the courses called Use of Books, Criminal Procedure, Civil Procedure, Code Pleading, Trial Practice, Evidence, and Practice Court.

Admission

Applicants for admission to candidacy for the degree of Bachelor of Laws must satisfy the requirements for admission to a college of this University and must have completed at least one-half of the work acceptable for a bachelor's degree requiring four years of study. At present this amounts to 60 semester hours of credit and 60 quality points, or the equivalent. Credit earned by correspondence or extension study is not accepted. Credit earned in non-theory courses in military science, hygiene, domestic arts, physical education, vocal or instrumental music, or in other courses without intellectual content of substantial value may not be counted toward the above require-

ment. The above requirements, except as to quality points, are fixed by the Association of American Law Schools.

The entrance requirements of this University call for graduation from a four-year approved secondary school.

Except by special permission of the Committee on Admissions and Degrees, no special students are admitted. In no case will more than one such student be allowed to matriculate during any academic year.

All rules and regulations of the University, except as herein noted, apply in general to the School of Law.

Advanced Standing

A student transferring from another law school may receive credit not exceeding two years, provided: (1) that the law school is a member of the Association of American Law Schools or is on the approved list of the American Bar Association; (2) that the student transferring meets the scholastic average required by that law school; (3) that his scholastic standing meets the requirements of Valparaiso University for advanced standing; (4) that the work which he has completed is similar in character to that which is given at Valparaiso University; and (5) that he has met the entrance requirements of the School of Law.

The right is reserved to withhold such credit, wholly or in part. Credit which has been granted may be withdrawn because of poor work at this university.

Requirements for Graduation

The requirements of the first year are constant. Except by approval of the Committee on Admissions and Degrees, first year law students are not permitted to take courses in other colleges of the University. The required courses for the second year are Business Organization II, Equity, and Code Pleading. Those for the third year are Constitutional Law, Trusts, Legal Ethics and Practice Court. Students in the second and third years must elect, in addition to the above required work, enough work in law to make a total of not less than 77 hours and 77 quality points. Upon approval by the Committee on Admissions and Degrees, a second or third year student may elect, from courses offered in the College of Liberal Arts, not more than four hours of extra work each semester. Attendance at special lectures is required of all students.

Combined Liberal Arts-Law Curriculum

Students who have completed three years (94 semester hours) of work in the College of Liberal Arts, and have received 94 quality points, will receive the degree of A.B. upon completing the first year in the School of Law, and the degree of LL.B. upon completing two additional years in the School of Law. By electing the combined course, students may obtain the two degrees in six years. Students who elect the combined curriculum must fulfill the requirements of the College of Liberal Arts as to the combined program. These requirements are given on page 39 of this catalog.

Curriculum for the School of Law

		First Year			
<i>First Semester</i>		<i>Cr.</i>		<i>Second Semester</i>	<i>Cr.</i>
101. Contracts -----		5	102. Business Organization I----		2
107. Property I -----		3	110. Civil Procedure -----		3
105. Torts -----		5	104. Criminal Law and Procedure		3
103. Use of Books -----		1	103. Use of Books -----		1
104. Criminal Law and Procedure		1	108. Property II -----		5
		<hr/>			<hr/>
		15			14

		Second Year		
	First Semester	Cr.	Second Semester	Cr.
153.	Business Organization II-----	2	153. Business Organization II-----	2
165.	Equity -----	3	165. Equity -----	2
	Electives -----	7	152. Code Pleading -----	2
			Electives -----	6
		—		—
		12		12

		Third Year		
<i>First Semester</i>		Cr.	<i>Second Semester</i>	Cr.
205.	Constitutional Law -----	3	205. Constitutional Law -----	2
209.	Trusts -----	3	164. Legal Ethics -----	2
	Electives -----	6	212. Practice Court -----	3
		—	Electives -----	5
		12		—
				12

Elective 1937-1938 and in Alternate Years Thereafter:					
First Semester			Second Semester		
		Cr.			Cr.
221.	Trial Practice -----	3	154.	Bills and Notes-----	3
161.	Insurance -----	2	198.	Property III -----	3
187.	Persons -----	2	178.	Municipal Corporations----	2
159.	Wills -----	2			
		<hr/>			<hr/>
		9			8

Electives 1938-1939 and in		Alternate Years Thereafter:			
	<i>First Semester</i>	Cr.	<i>Second Semester</i>	Cr.	
202.	Carriers -----	2	206.	Conflict of Laws -----	2
171.	Mortgages -----	2	196.	Sales -----	3
201.	Suretyship -----	2	204.	Creditors' Rights -----	3
209.	Evidence -----	3			
		<hr/>			<hr/>
		9			8

Courses in Law

First Year Courses (Required)

102. BUSINESS ORGANIZATION I. Sem. 2. Cr. 2.
This course consists of a treatment of the law of Agency embracing the nature and purpose of the agency relation; parties to the relation; methods of its creation, the authority of the agent, duties owed by agent to principal; rights of agent against principal; power of agent to subject principal to liability on contract and in tort; undisclosed principal; ratification and termination of the agency.
Magill and Hamilton: Cases on Business Organization, Volume 1. Wehling
110. CIVIL PROCEDURE. Sem. 2. Cr. 3.
A study of the Common Law actions including their origin, development and modification by modern codes and statutes; a survey of the Common Law systems of pleading with a critical analysis of its success in reaching issues of law and fact between the litigants.
Casebook to be selected. Jox
101. CONTRACTS. Sem. 1. Cr. 5.
Offer and acceptance; contractual intent; communication of offer and acceptance; kinds of contract; consideration; sealed contracts; rights and liabilities of beneficiaries; of assignees; joint and several contracts; illegal contracts; conditions; discharge of contracts; Statute of Frauds.
Costigan: Cases on Contracts (third edition). Wehling
104. CRIMINAL LAW AND PROCEDURE. Sem. 1. Cr. 1. Sem. 2. Cr. 3.
General considerations; solicitation and attempt; assault, battery, and mayhem; false imprisonment; homicide; rape; larceny; embezzlement and false pretenses; receiving stolen property; burglary; arson; infamy; combination of persons; criminal procedure. Attention is given to recommendations of American Law Institute.
Harno: Cases on Criminal Law and Procedure. Morland

107. PROPERTY I. Sem. 1. Cr. 3.

Personal property; possessory interests in chattels; acquisition of title to chattels; fixtures. Real property; general introduction; rights in another's land: Particularly, rents, profits a prendre, "natural" rights, easements, licenses, and covenants running with the land.

Bigelow: Cases on Personal Property (second edition).

Bigelow: Cases on Rights in Land (second edition).

Berry

108. PROPERTY II. Sem. 2. Cr. 5.

Original title, including possessory title, prescription and accretion; derivative title, including execution of deeds, description of property conveyed, creation of easements by implication, estates created, covenants for title, estoppel by deed and priorities.

Bigelow: Cases on Rights in Land (second edition).

Aigler: Cases on Titles (second edition).

Berry

105. TORTS. Sem. 1. Cr. 5.

Specific torts, namely, assault, battery, false imprisonment, trespass to land and to goods; deceit, defamation, malicious prosecution; liability for negligent conduct; legal causation; absolute liability of landowners to third parties; injuries to economic rights.

Bohlen: Cases on Torts (third edition).

Jox

103. USE OF BOOKS. Sem. 1. Cr. 1. Sem. 2. Cr. 1.

Training in legal research and the use of authorities, cases, indices and digests.

Materials to be selected.

Morland

Second Year Courses (Required)

153. BUSINESS ORGANIZATION II. Sem. 1. Cr. 2. Sem. 2 Cr. 2.

This course consists of a treatment of the law of partnership and private corporation in relation to each other. It considers the formation, the going concern, problems of contract and of tort, divisions of proceeds, and solvent dissolution of each type of organization. Materials relating to business trusts, limited partnerships and joint stock associations are also considered.

Magill and Hamilton: Cases on Business Organization, Volume II. Wehling

152. CODE PLEADING. Sem. 2. Cr. 2.

An interpretation of the provisions of modern codes of pleading, with special attention to the influence of the common law system of pleadings on the judicial construction of these codes; suggested modification of existing codes.

Hinton: Cases on Code Pleading (third edition).

Jox

165. EQUITY. Sem. 1. Cr. 3. Sem. 2. Cr. 2.

Nature and scope of equity; injunctions, specific performance; reformation and recession; recovery for benefits wrongly retained; bills of peace, bills of interpleader, bills quia timet. Brief attention is also given to Quasi-Contracts.

Cook: Cases on Equity. One volume (second edition).

Morland

Third Year Courses (Required)

205. CONSTITUTIONAL LAW. Sem. 1. Cr. 3. Sem. 2. Cr. 2.

Relations between the federal government and the state; scope of legislative, judicial, and executive powers; interstate commerce, money; federal taxation; territories and dependencies; constitutional limitations in favor of life, liberty, and property; due process of law and equal protection of the laws; powers of states.

Casebook to be selected.

Morland

164. LEGAL ETHICS. Sem. 2. Cr. 2.

The nature of the profession; pecuniary limitations, advertising, solicitation, fees, lawyer's oath; ethical duties of lawyers to society, to courts, to clients, to litigants; ethics of employment; Canons of Ethics of the American Bar Association.

Arant: Cases on Legal Ethics.

Wehling

212. PRACTICE COURT. Sem. 2. Cr. 3.

Practical exercises are given in the commencement, maturing, and trial of cases. The student incidentally acquires a familiarity with drafting pleadings, brief making, and the technique of practice, but the greater stress is laid upon developing the powers of constructive thinking in correlating procedure and substantive law.

Jox

209. TRUSTS. Sem. 1. Cr. 3.

The origin and nature of trusts; resulting and constructive trusts; charitable trusts; duties of trustees; remedies of cestui qui trust.

Scott: Cases on Trusts (second edition).

Berry

Electives for Second and Third Years

155. ADMINISTRATIVE LAW. Sem. 1. Cr. 2.

The law of public officers, including extraordinary legal remedies.
 Freund: Cases on Administrative Law (second edition).
 [Not offered 1937-1938.]

Morland

154. BILLS AND NOTES. Sem. 2. Cr. 3.

History and development of the law of negotiable instruments from the law merchant, through the common law and into its present codified state in the Uniform Negotiable Instruments Law; the formal requisites of bills, notes, and checks; the necessary steps to perfect the holder's rights; and the discharge of negotiable instruments.

Britton: Cases on Bills and Notes (second edition).

Wehling

202. CARRIERS. Sem. 2. Cr. 3.

A general consideration of bailment undertaking involving ordinary liabilities, and a more extended study of carriers, innkeepers, and other public service relations involving extraordinary liability.

Goddard: Cases on Carriers (second edition).

Berry

[Not offered 1937-1938.]

206. CONFLICT OF LAWS. Sem. 2. Cr. 2.

A study of the principles which control in determining when a foreign law, a law of some other state than that of the forum, should be applied in adjudicating the rights of parties.

Lorenzen: Cases on Conflict of Laws (third edition).

[Not offered 1937-1938.]

Jox

204. CREDITORS' RIGHTS. Sem. 2. Cr. 3.

The legal and equitable remedies of the unsecured creditor against his insolvent debtor, including enforcement of judgments by legal and equitable process, fraudulent conveyances, general assignments, creditors' agreements, receiverships, and bankruptcy.

Hanna: Cases on Creditors' Rights (second edition).

Berry

207. EVIDENCE. Sem. 1. Cr. 3.

Rules for the exclusion of evidence, functions of the court and jury; burden of proof; circumstantial evidence; hearsay; the examination of witnesses; the "parol evidence" rule.

Hinton: Cases on Evidence (second edition).

[Not offered 1937-1938.]

Jox

215. FEDERAL JURISDICTION. Sem. 1. Cr. 2.

Jurisdiction and functions of the federal judicial system; constitutional limits of power of courts; substantive and procedural law applied; jurisdiction of District Courts; diversity of citizenship, federal question, removal of causes, jurisdictional amount, venue; concurrent jurisdiction of state courts; jurisdiction of Circuit Court of Appeals; jurisdiction of Supreme Court, original and appellate; relationship between state and Federal courts; Supreme Court rules of pleading and procedure.

Frankfurter and Katz: Cases on Federal Jurisdiction and Procedure.

[Not offered 1937-1938.]

Morland

161. INSURANCE. Sem. 1. Cr. 2.

Considering the topics of insurable interest, concealment, representation, warranty, cause of invalidity, increase of hazard, conditions prohibiting alienation, the peril insured against, the amount of recovery, subrogation, conditions applicable after loss, waiver and estoppel, assignment of policies and rights of beneficiaries.

Patterson: Cases on Insurance.

Wehling

171. MORTGAGES. Sem. 1. Cr. 2.

Nature, equitable mortgages, restriction on right to redeem; priorities; obligations secured; extension of time; transfers; discharge; redemption; subrogation; foreclosure.

Parks: Cases on Mortgages.

[Not offered 1937-1938.]

Berry

178. MUNICIPAL CORPORATIONS. Sem. 2. Cr. 2.

Incorporation and incidents of existence; types of organizations; legislative control; corporate agencies, express and implied powers; revenue and indebtedness; acquisition and control of property; liability in contract and tort; remedies.

Seasongood: Cases on Municipal Corporations (second edition).

Morland

187. PERSONS. Sem. 1. Cr. 2.

Family law including marriage, separation, and divorce; property rights of married women; contractual and tortious liabilities of one spouse to the other and to third persons; personal disability including a study of the rights and liabilities of an infant to his parents and to third persons.

Madden: Cases on Domestic Relations.

Jox

196. SALES. Sem. 2. Cr. 3.

Embracing the subject matter of sale, contract of sale, parties to the contract, the price, executory and executed sales and the various rules of law governing each, sales of specific property, sales of non-existent and unidentifiable property, retention of jus disponenti, stoppage in transitu, warranty and application to executory and executed sales, frauds, avoidance of the contract and Statute of Frauds.

Bogert and Britton: Cases on Sales.

[Not offered 1937-1938.]

Wehling

198. PROPERTY III. FUTURE INTERESTS. Sem. 2. Cr. 3.

Future interests in real and personal property; their creation, validity, and effect. Vested and contingent remainders; executory interests; Rule in Shelley's Case; powers; rule against perpetuities; illegal conditions and restraints.

Kales: Cases on Future Interests (second edition).

Berry

201. SURETYSHIP. Sem. 1. Cr. 2.

Statute of Frauds applying to contracts of suretyship, guaranty and indemnity; commercial guarantees; defenses of alteration, payment fraud, release, failure to sue principal, Statute of Limitations and exoneration; special types of contracts, private, public, and judicial bonds; rights and remedies of promisor after payment, including subrogation, contribution, and indemnity.

Arant: Cases on Suretyship.

[Not offered 1937-1938.]

Wehling

221. TRIAL PRACTICE. Sem. 1. Cr. 3.

Jurisdiction of the subject-matter; process, including a study of jurisdiction in personam and jurisdiction in rem; default judgments; conduct of the trial from the selection of the jury to entry of the final judgment in jury trials, including the drafting of jury instructions; trials by court without a jury.

Hinton: Cases on Trial Practice (second edition).

159. WILLS. Sem. 1. Cr. 2.

Testamentary capacity; kinds of wills; execution; revocation; probate of wills; testate and intestate succession to real and personal property; executors and administrators; administration of decedents' estates; distribution; final report and discharge.

Costigan: Cases on Wills (second edition).

Berry

226. LAW LECTURES. Cr. 0. Sem. 1 and 2.

Some twenty lectures on subjects of practical importance given by men who are active in the profession of law. Subjects included are Appellate Practice, Juvenile Courts, Legal Ethics, and Legal History. Required of all students. Absences are reported as in other courses. The lecturers and their subjects are:

Judge Grant Crumpacker.....	Federal Jurisdiction and Practice
Judge A. J. Link.....	Juvenile Courts
Judge Mark B. Rockwell.....	Legal Ethics

Reading Course

Students of high standing who desire to take a course not listed above may do so with the consent of the faculty and the assistance of an instructor.

PART VIII

DEGREES CONFERRED, STATISTICS, REGISTER OF STUDENTS

Degrees Conferred 1935-1936

Honorary

Doctor of Music

June 14, 1936

Mr. Edmund Seuel

The College of Liberal Arts

Bachelor of Arts

July 20, 1935

Oliver C. Heine

Grant Robert Wacknitz

August 24, 1935

Anthony Bielauskas

Arthur Idolf Raelson

February 1, 1936

Frank Ellis Kamplain

Paul Christian Plehn

June 14, 1936

Edna Bernice Anderson
Verna Lu Ella Arnold
Carl William Beyer
Millicent Bibza
Elmore Louis Clemens Boeger
Lois Emily Brauer
Harvey E. Busse
Helen Cobb
Juanita Conklin
Wilbert Martin Dierker
Francis Paul Dodson
Paul Darius Egli
Carl Leonard Fessel
Frank Carl Fierke
Ernst Flotow
Lloyd J. Frevert
Theodore A. Frincke
Daniel Gahl
William Ralph Galen
Marion Elizabeth Gauss
Lenard Paul Gotsch
Roland Carl Grimmer
Waldemar Otto Grosnick
John Herman Hahn
Elmer Delbert Hartig
Lois Mae Horning
Ruth Marie Kemea
Carl Henry Koss

Eugene Roman Kotur
Norma M. Kroehnke
Violet Marie Krohn
Adah Hermine Holland-Letz
Daniel Paul Manka
Sylvester Ambrose Mann
Armin William Manning
Leota Caroline Martens
Evangel Lind Miller
Hazel Carolyn Moennich
Helen Marie Oelschlager
Donald Woodrow Peters
Elwood A. Pett
Erwin H. C. Potthoff
Elvin Henry Pretzer
Elmer William Rehme
Earl Frederick Reinke
Raymond Henry Renn
William Frank Roeske
Flora Ellen Rosenthal
Helen Elizabeth Schack
Wilbur Louis Schmidt
Mary Louise Schroeder
Peter J. Struck
Wilbur C. Struebig
Robert Nebel Watson
Helen Anna Barbara Weiss
Kenneth Karn Wunsch

The College of Engineering

Bachelor of Science in Civil Engineering

June 14, 1936

August Karl Miller

Bachelor of Science in Electrical Engineering

June 14, 1936

Herbert Frank Findling
Harland Aaron Kaufmann

Lester W. Malzahn
Harold Frederick Mertz
Frederick Henry Persson

Bachelor of Science in Mechanical Engineering

August 24, 1936

Lewis John Reguly

June 14, 1936

Ernest Stueckler

The College of Pharmacy

Bachelor of Science in Pharmacy

February 1, 1936

Wilbur C. Struebig

June 14, 1936

Anthony Theodore Aiello

Raymond James Broviak

The School of Law

Bachelor of Laws

June 14, 1936

Russell Bowser
Walter Augustus Christopher
Andrew Bernard Chrustowski
Oliver Henry Eggers
Samuel H. Freel
Harold Henry Heins
George Vincent Krampien

Henry Frederick Meilahn
Albert G. Montie
Martin John Nehring
Melvin Oliver Nuss
Arthur Idolf Raelson
Rudy George Smatlak
Norman William Westphal

Summary of Attendance

1936-1937 (September-June)

(As of March 11, 1937)

The College of Liberal Arts

	Men	Women	Total
Seniors -----	15	20	35
Juniors -----	34	25	59
Sophomores -----	53	36	89
Freshmen -----	87	67	154
Unclassified -----	3	2	5
Auditor -----		1	1
Total -----	192	151	343

The College of Engineering

	Men	Women	Total
Seniors -----	5	---	5
Juniors -----	8	---	8
Sophomores -----	11	---	11
Freshmen -----	28	---	28
Unclassified -----	1	---	1
Special -----	1	---	1
Total -----	54	---	54

The College of Pharmacy

	Men	Women	Total
Seniors -----	6	2	8
Juniors -----	15	3	18
Sophomores -----	11	---	11
Freshmen -----	6	---	6
Total -----	38	5	43

The School of Law

	Men	Women	Total
Third Year -----	14	---	14
Second Year -----	11	---	11
First Year -----	13	2	15
Total -----	38	2	40

Recapitulation

(September-June)

	Men	Women	Total
The College of Liberal Arts -----	192	151	343
The College of Engineering -----	54	---	54
The College of Pharmacy -----	38	5	43
The School of Law -----	38	2	40
Total Different Students -----	322	158	480

Summary of Attendance

Summer Session 1936

	Men	Women	Total
First Five-Week Term (June 15-July 18)-----	30	36	66
Second Five-Week Term (July 20-August 22)-----	27	15	42
Total Gross Enrollment-----	57	51	108
Deduct Duplicates -----	14	8	22
Total Different Students-----	43	43	86

Recapitulation

(June, 1936-June, 1937)
(As of March 11, 1937)

	Men	Women	Total
The College of Liberal Arts-----	192	151	343
The College of Engineering-----	54	---	54
The College of Pharmacy-----	38	5	43
The School of Law-----	38	2	40
First Summer Term-----	30	36	66
Second Summer Term-----	27	15	42
Total Gross Enrollment-----	379	209	588
Deduct Duplicates -----	22	24	46
Total Different Students-----	357	185	542

Geographical Distribution of Students

(September-June) 1936-1937

United States—Continental

State	Number of Students	State	Number of Students
Indiana -----	162	Connecticut -----	4
Illinois -----	123	Kansas -----	4
Wisconsin -----	53	Massachusetts -----	3
Michigan -----	46	Texas -----	3
Ohio -----	25	Montana -----	2
Minnesota -----	11	Arkansas -----	1
Iowa -----	10	Colorado -----	1
New York -----	10	Maryland -----	1
Missouri -----	7	North Carolina -----	1
Pennsylvania -----	6	Wyoming -----	1
New Jersey -----	5	Total -----	479

Insular and Non-Contiguous Territories-----None

Foreign Countries

Country	Number of Students
Canada -----	1

Recapitulation

	Number of Students
United States—Continental -----	479
United States—Insular and Non-Contiguous Territories-----	---
Foreign Countries -----	1
Total -----	480
Number of States Represented-----	21
Number of Insular and Non-Contiguous Territories-----	---
Foreign Countries -----	1

Register of Students

(1936-1937)

(As of March 11, 1937)

(Including the Summer Session of 1936)

The following abbreviations are used to designate colleges: LA, College of Liberal Arts; E, College of Engineering; P, College of Pharmacy; L, School of Law.

Classification of students is indicated as follows: F, Freshman; So., Sophomore; J, Junior; S, Senior; U, Unclassified; Sp., Special; Au., Auditor; 1, First Year; 2, Second Year; 3, Third Year.

Attendance is indicated as follows: 1, First Semester; 2, Second Semester; 1ST, First Summer Term; 2ST, Second Summer Term.

NAME OF STUDENT	C	Y	ATTENDANCE	HOME ADDRESS
Ackenhausen, Milton	E	So.	1, 2	Pekin, Illinois
Adams, Helenrae	LA	So.	1, 2	Valparaiso, Indiana
Addison, Robert	LA	F	2	Gary, Indiana
Ahlbrand, Evelyn	LA	F	1, 2	Seymour, Indiana
Ahlbrand, Melba	LA	S	1, 2	Seymour, Indiana
Ahlbrand, Virginia	LA	F	1, 2	Seymour, Indiana
Allett, Jean	LA	S	1ST, 2ST, 1, 2	Valparaiso, Indiana
Andernacht, Daniel	LA	J	1, 2	Crown Point, Indiana
Anders, Clara Belle	LA	So.	1, 2	Valparaiso, Indiana
Anderson, Fay	L	1	1, 2	Oak Park, Illinois
Andres, Eric	LA	S	1, 2	Evanston, Illinois
Angell, George	LA	U	2ST	La Porte, Indiana
Anhold, Albert	L	3	1, 2	Gary, Indiana
Ansorge, Luella	LA	J	1ST, 1, 2,	Manning, Iowa
Appold, Norman	E	So.	1, 2	Detroit, Michigan
Arndt, Easter	LA	U	1ST	La Porte, Indiana
Babcock, Verla	LA	So.	1, 2	Chesterton, Indiana
Baetz, Wilbur	LA	So.	1, 2	Detroit, Michigan
Baliff, Mrs. Mildred H.	LA	U	1ST	East Gary, Indiana
Baran, John	L	3	1, 2	East Chicago, Illinois
Bartelt, Robert	LA	So.	1, 2	Milwaukee, Wisconsin
Bauer, Leland	LA	F	1, 2	Herscher, Illinois
Baum, Margaret	LA	F	1ST, 2ST, 1	Crown Point, Indiana
Baumbach, Roland	LA	F	1, 2	Downers Grove, Ill.
Beach, Clyde	E	J	1, 2	Calumet City, Illinois
Beer, Lawrence	LA	U	1ST	Des Plaines, Illinois
Beesley, Ralph	L	1	1, 2	Chicago, Illinois
Beiderwieden, Hermine	LA	S	1ST, 1, 2	Hammond, Indiana
Benninger, Mae	LA	F	1, 2	Reeseville, Wisconsin
Berkowitz, Joseph	LA	So.	1, 2	Chesterton, Indiana
Berlin, O. H.	LA	U	1ST	Hobart, Indiana
Betterton, Oley	LA	U	1ST	Porter, Indiana
Beuscher, Fred	LA	J	1, 2	Cudahy, Wisconsin
Bischoff, Paul	LA	J	1, 2	S. Euclid, Ohio
Blaese, Rosemary	LA	S	1, 2	Valparaiso, Indiana
Blackwood, Rev. Grant	LA	U	1	Hebron, Indiana
Blake, James	E	F	1, 2	Valparaiso, Indiana
Bloom, William	LA	U	2ST	Chicago, Illinois
Bode, Frank	LA	So.	1, 2	Alton, Illinois
Bodenstab, Philip	L	3	1	Chicago, Illinois

NAME OF STUDENT	C	Y	ATTENDANCE	HOME ADDRESS
Boeger, Elmore	L	2	1, 2	Hillside, Illinois
Boehne, Victor	E	So.	1, 2	Itasca, Illinois
Boelter, Kenneth	LA	So.	1, 2	Montevideo, Minn.
Boerger, Eugene	P	So.	1, 2	Fort Wayne, Indiana
Boerger, Victor	E	F	1, 2	Fort Wayne, Indiana
Boese, Ella	LA	U	2ST	Columbus, Indiana
Bohl, Ralph	LA	So.	1, 2	Appleton, Wisconsin
Bona, Frank	P	So.	1, 2	Chicago, Illinois
Boomershine, Charles	L	3	1, 2	Monon, Indiana
Borum, Anita	LA	F	1, 2	Valparaiso, Indiana
Boss, Edward	LA	F	1, 2	Detroit, Michigan
Bradley, Vera	LA	U	1ST	Wheeler, Indiana
Brasch, Harold A.	LA	S	2	Pembroke, Ont., Can.
Brauer, Miriam	LA	F	1, 2	Columbus, Indiana
Bretscher, Else	LA	So.	1ST, 2ST, 1, 2	Springfield, Illinois
Brinkmann, Edwin	LA	F	1, 2	Homewood, Illinois
Brinkman, Norman	LA	U	1ST, 2ST	Kankakee, Illinois
Brna, Paul	LA	J	1, 2	E. Port Chester, Conn.
Brown, Clarence	LA	So.	1, 2	Michigan City, Ind.
Brucks, Oscar	LA	So.	1, 2	Appleton, Wisconsin
Brueggemann, Myrtle	LA	F	1, 2	Milwaukee, Wisconsin
Bruss, Delbert	P	J	1, 2	Echo, Minnesota
Bruss, Orville	LA	F	1, 2	Echo, Minnesota
Bull, Thelma	LA	F	1, 2	Valparaiso, Indiana
Buls, Erwin J.	LA	U	1ST, 2ST	Calumet City, Ill.
Buls, Mildred	LA	So.	1, 2	Palmyra, Missouri
Burton, Phyllis	LA	F	1, 2	Grand Haven, Mich.
Bush, George T.	L	3	1	Chesterton, Indiana
Busse, Harvey	L	2	1, 2	Mount Prospect, Ill.
Busse, Walter	LA	J	1, 2	Appleton, Minnesota
Busse, William	L	1	1, 2	Mount Prospect, Ill.
Butzow, Charles	LA	F	1, 2	Wausau, Wisconsin
Cade, Dorothy	LA	So.	1, 2	Guttenberg, N. J.
Cagann, Richard	LA	So.	1, 2	Champaign, Illinois
Callies, Edith	LA	S	1, 2	Milwaukee, Wis.
Cannon, Joseph	LA	F	2	Chicago, Illinois
Carlson, Irvin	E	U	1	Chesterton, Indiana
Carr, Donald	LA	So.	1, 2	Michigan City, Ind.
Casten, Clarence	LA	So.	1, 2	Springfield, Illinois
Cenkush, Edward	LA	F	1, 2	New Carlisle, Indiana
Chapman, Rachel	LA	F	1, 2	Taylorsville, N. C.
Ciesielski, John	E	J	1, 2	Valparaiso, Indiana
Cigrand, Robert	LA	F	1, 2	Chicago, Illinois
Clark, Wallace	LA	So.	1, 2	Shelley, Montana
Claudon, Herbert	LA	F	1, 2	Valparaiso, Indiana
Caludon, Marjorie	LA	S	1ST, 1, 2	Valparaiso, Indiana
Claus, Hilda	LA	J	1, 2	Lamar, Arkansas
Clifford, Leo	L	1	1, 2	Valparaiso, Indiana
Collier, Jack	LA	F	1, 2	Decatur, Illinois
Cone, Sherman	P	J	1, 2	Freeport, Illinois
Conibear, Robert	P	So.	1, 2	Morton, Illinois
Cook, Marvin	E	J	1, 2	Valparaiso, Indiana
Conley, Laura Mae	LA	U	1ST, 2ST	Valparaiso, Indiana
Craft, Beulah	LA	U	1ST	Kingsburg, Indiana
Dale, John	P	S	1, 2	Chesterton, Indiana
Dannenfelser, Robert	LA	F	1, 2	Fort Wayne, Indiana
Darling, Dorothy	LA	F	1, 2	Hamburg, New York

NAME OF STUDENT	C	Y	ATTENDANCE	HOME ADDRESS
Dawald, Earl.....	LA	F	1, 2	Peru, Indiana
Dede, Eldred.....	L	2	1, 2	Milwaukee, Wis.
DeGrazia, Lenora.....	LA	F	1, 2	Valparaiso, Indiana
Diemer, Roland.....	LA	S	1, 2	Stratford, Wisconsin
Dierker, Cecilia.....	LA	J	1, 2	Watertown, Wis.
Diersen, Arnold.....	LA	U	1ST, 2ST	Lyons, Illinois
Dietrich, Adolph.....	E	F	2	Willshire, Ohio
Dietrich, Myrtle.....	LA	So.	1, 2	Milwaukee, Wisconsin
Dolk, Charles.....	LA	So.	1, 2	Chesterton, Indiana
Donner, Elmer.....	E	J	1, 2	Wilson, New York
Doty, James A.....	P	F	1, 2	Chicago, Illinois
Drzewicki, B. William.....	L	2	1, 2	Cicero, Illinois
Dube, William.....	LA	J	1, 2	The Grove, Texas
Duesenberg, Carl.....	LA	F	1, 2	St. Louis, Missouri
Duganne, Walter.....	LA	U	1ST	Bremen, Indiana
Duhn, Walter.....	E	F	1, 2	Indianapolis, Indiana
Eaton, Dorothy.....	LA	U	1ST	Boone Grove, Indiana
Eberts, Helen.....	LA	F	1, 2	Detroit, Michigan
Eddy, Harold.....	P	F	1, 2	Hurley, Wisconsin
Edquist, Evar.....	LA	So.	1, 2	Chesterton, Indiana
Eggebrecht, Dorothy.....	LA	F	1, 2	Hammond, Indiana
Eggebrecht, Edward.....	E	So.	1, 2	Hammond, Indiana
Ehlers, Myrtle.....	LA	So.	1, 2	Cornucopia, Wis.
Ehlert, Jean.....	LA	F	1, 2	Cleveland Heights, O.
Ehlert, Marguerite.....	LA	So.	1, 2	Cleveland Heights, O.
Ehnes, Carl.....	LA	S	1, 2	Corona, New York
Eickstaedt, Leo.....	LA	U	1ST	Hanna, Indiana
Eilers, Arnold.....	LA	U	1ST	La Grange, Illinois
Elkin, Morris.....	P	So.	1, 2	Chicago, Illinois
Ellefson, Alton.....	E	Sp.	1, 2	Waterville, Iowa
Elliot, Frederick.....	P	So.	1, 2	Chicago, Illinois
Erasmus, Kenneth.....	LA	F	1, 2	Milwaukee, Wis.
Erickson, Glenn.....	E	J	1, 2	Chesterton, Indiana
Estler, Harry.....	LA	So.	1, 2	New York, New York
Evans, Richard.....	LA	J	1, 2	Chicago, Illinois
Falk, Kurt.....	L	1	1, 2	Sheboygan, Wisconsin
Feiertag, Henry.....	E	F	1, 2	Wheatridge, Colorado
Felper, Jesse.....	LA	U	2ST	Michigan City, Ind.
Felten, Arnold.....	LA	F	1, 2	Shawano, Wisconsin
Fessel, Dorothy.....	LA	F	1, 2	Defiance, Ohio
Fiedler, Jeanne.....	LA	F	1, 2	Lima, Ohio
Fienup, Elizabeth.....	LA	S	1, 2	St. Louis, Missouri
Fierke, David.....	LA	S	1, 2	Wittenberg, Wis.
Fiesser, Ruth.....	LA	F	1, 2	North Bergen, N. J.
Fifield, Rex.....	LA	F	2	Hebron, Indiana
Findling, Willard.....	E	S	1, 2	Hammond, Indiana
Finneran, Donald.....	LA	F	1, 2	Calumet City, Illinois
Finneran, James.....	LA	F	1, 2	Calumet City, Illinois
Fleck, Paul.....	E	S	1, 2	Forest Park, Illinois
Foor, Eva M.....	LA	U	1ST	Wanatah, Indiana
Freehauf, Mable G.....	LA	F	1, 2	Bremen, Indiana
Freise, Herbert.....	LA	So.	1, 2	Palatine, Illinois
Frese, Gretchen.....	LA	F	1	Chicago, Illinois
Frevert, Lloyd.....	L	2	1, 2	Holyrood, Kansas
Fritz, George.....	LA	So.	1, 2	Detroit, Michigan
Fritz, Wilfred W.....	LA	So.	1, 2	Hinsdale, Illinois
Fritz, William H.....	E	F	1, 2	Detroit, Michigan

REGISTER OF STUDENTS

109

NAME OF STUDENT	C	Y	ATTENDANCE	HOME ADDRESS
Fuhlberg, Mildred.....	LA	So.	1	Gary, Indiana
Gade, Cora.....	LA	F	1, 2	Milwaukee, Wisconsin
Gallmeyer, Marybelle.....	LA	F	1, 2	Fort Wayne, Indiana
Garbers, Walter.....	E	S	1, 2	Oak Park, Illinois
Gase, Marion.....	LA	J	1, 2	Parma, Ohio
Gauss, Charles.....	LA	F	1, 2	Detroit, Michigan
Gauthier, Gerald.....	LA	F	1	East Chicago, Indiana
Gay, Frederick.....	E	F	1, 2	Fowler, Indiana
Gehrke, Willis.....	LA	So.	1, 2	Mayville, Wisconsin
Gerbinsky, Eugene.....	P	J	1, 2	Manitowoc, Wis.
Gernannt, Emma.....	LA	F	1, 2	New York, N. Y.
Gieseke, Fred.....	L	1	1, 2	Arlington Heights, Ill.
Glotzhober, Clemens.....	LA	F	1, 2	Dearborn, Michigan
Goad, Wendell.....	LA	F	1	Gary, Indiana
	LA	So.	2	
Goethke, Lawrence.....	LA	J	1	Baraboo, Wisconsin
	L	1	2	
Goetz, Howard.....	LA	So.	1, 2	Chicago, Illinois
Gohlke, Selma.....	LA	So.	1, 2	Belvidere, Illinois
Gorrell, James.....	P	F	1, 2	Amarillo, Texas
Gotsch, Carol.....	LA	F	1, 2	Monroe, Michigan
Graf, Hilda.....	LA	F	1, 2	Chicago, Illinois
Graul, Walter.....	LA	J	1, 2	St. Louis, Missouri
Green, Lila.....	LA	F	1, 2	Abbotsford, Wis.
Green, Lillian.....	LA	U	2ST	Elizabeth, Indiana
Griep, Arthur.....	LA	J	1ST, 1, 2	Cadillac, Michigan
Grigg, Mae.....	LA	So.	1	Detroit, Michigan
Grosnick, Edgar.....	LA	F	1, 2	Watertown, Wis.
Grosnick, Waldemar.....	LA	S	1, 2	Watertown, Wis.
Grosz, Cordelia.....	LA	F	1, 2	Sibley, Illinois
Grosz, Rosaline.....	LA	J	1, 2	Sibley, Illinois
Gruett, Phyllis.....	P	J	1, 2	Merrill, Wisconsin
Gunder, Mrs. Bessie.....	LA	U	2ST	Crown Point, Indiana
Gustaitis, Eleanor.....	LA	F	1, 2	East Chicago, Indiana
Guthrie, Virginia.....	LA	F	1, 2	Valparaiso, Indiana
Guttilla, Pat.....	P	J	1, 2	Chicago, Illinois
Gutzler, Melvin.....	LA	U	2ST	Hobart, Indiana
Haack, Edwin.....	LA	U	1ST	Wyandotte, Michigan
Hackbert, Irvin.....	LA	F	1, 2	Arlington, Wisconsin
Haeger, June.....	LA	F	1, 2	Fort Wayne, Indiana
Hahn, Vera.....	LA	J	1, 2	Wauwatosa, Wisconsin
Haller, Roberta.....	LA	S	2ST, 1, 2	Kankakee, Illinois
Hannon, Helen.....	LA	F	1, 2	Kouts, Indiana
Harper, Esther.....	LA	So.	1, 2	Crown Point, Indiana
Harrold, Mary.....	LA	U	1, 2	Valparaiso, Indiana
Hartman, Esther.....	LA	U	1ST, 2ST	Kendallville, Indiana
Hartman, Victoria.....	LA	F	1, 2	Fort Wayne, Indiana
Hartmeister, Felix.....	LA	F	1, 2	Paullina, Iowa
Hartmeister, Joel.....	LA	J	1, 2	Paullina, Iowa
Hass, Carl.....	LA	F	1, 2	Gary, Indiana
Haxton, Dorothy.....	LA	F	1, 2	Hobart, Indiana
Heemsoth, Robert.....	LA	So.	1	Fort Wayne, Indiana
Helbling, Harold.....	LA	So.	1, 2	East Chicago, Ind.
Hellenberg, Clare.....	E	F	1, 2	Detroit, Michigan
Henkel, Alfred.....	LA	S	1ST, 2ST, 1	Ohio City, Ohio
Hentschel, G. Herman.....	LA	U	2ST	Hobart, Indiana
Herscher, Arnold.....	LA	So.	1, 2	Owosso, Michigan

NAME OF STUDENT	C	Y	ATTENDANCE	HOME ADDRESS
Heuser, William	LA	U	2ST	Arlington Heights, Ill.
Hicken, Paul	LA	F	1, 2	Chicago, Illinois
Hildner, Victor	LA	So.	1, 2	Detroit, Michigan
Hill, Edwina	LA	J	1, 2	Brooklyn, New York
Hillger, Richard	LA	U	1ST	Chicago, Illinois
Hineline, Vernon	E	F	1	Chesterton, Indiana
Hinz, Arthur	L	3	1, 2	Chicago, Illinois
Hirsch, William	LA	F	1, 2	Cincinnati, Ohio
Hitchings, Quandon	LA	F	1, 2	Raymond, Illinois
Hitzemann, Irene	LA	So.	1ST, 2ST, 1	Carrollton, Missouri
	LA	J	2	
Hoecker, W. Richard	P	J	1ST, 1, 2	Cleveland, Ohio
Hoff, Dale	L	1	1, 2	Chesterton, Indiana
Hoffman, Laurence	LA	F	1	Hammond, Indiana
Hoffman, Marjorie	LA	S	1ST, 1, 2	Pleasantville, Ohio
Holley, Janet	LA	U	1ST	Crown Point, Indiana
Hoover, Charles	LA	So.	1, 2	Valparaiso, Indiana
Hoppe, Oscar	E	F	1, 2	Lakewood, Ohio
Horney, Wayne	LA	F	1, 2	Valparaiso, Indiana
Householter, Francis	L	3	1	Chicago, Illinois
Howell, Frances	LA	U	1ST	Wanatah, Indiana
Hoy, Margaret	LA	F	1, 2	Detroit, Michigan
Hubbard, Alfred	LA	So.	1, 2	Michigan City, Ind.
Hubner, Norman	LA	U	1ST, 2ST	Knox, Indiana
Humphrey, Richard	LA	So.	1, 2	Calumet City, Ill.
Jacobs, Louis	P	F	1, 2	Fort Wayne, Indiana
Jacobs, Margaret	LA	F	1, 2	Rocky River, Ohio
James, Kinsey	L	1	1, 2	Peoria, Illinois
James, Russell	L	1	1, 2	Peoria, Illinois
Jannasch, Clifford	LA	J	1, 2	Gary, Indiana
Jensen, Sylvia	LA	So.	1, 2	Chicago, Illinois
Jensen, William	LA	F	1, 2	Valparaiso, Indiana
Johnson, Edwin	LA	J	1, 2	Pittsfield, Mass.
Johnson, Paul	LA	F	1, 2	Gary, Indiana
Johnson, Robert	E	S	1, 2	Valparaiso, Indiana
Johnson, Wilbur	LA	J	1, 2	Michigan City, Ind.
Johnston, Marjorie	LA	F	1, 2	Valparaiso, Indiana
Jones, Muriel	LA	S	1	Wheeler, Indiana
Kanis, Leonora	LA	So.	1, 2	Chicago, Illinois
Karr, William	L	2	1, 2	Calumet City, Illinois
Karsel, Arthur	LA	So.	1, 2	Chicago, Illinois
Kase, Edward	LA	F	1, 2	Huntington, Indiana
Kautz, Darrel	LA	J	1, 2	Olean, New York
Keene, Juanita	LA	F	1, 2	Gary, Indiana
Keil, Walter	LA	So.	1, 2	River Forest, Illinois
Kemena, Roma	LA	S	1, 2	Michigan City, Ind.
Kerry, Parum	LA	F	1, 2	Thompsonville, Mich.
Kershunas, Lon	LA	F	1	Hammond, Indiana
Kessel, Beulah	LA	F	1, 2	Shelbyville, Illinois
Kielpikowsky, Edward	E	F	1, 2	Valparaiso, Indiana
Kleinschmidt, Wilbert	LA	U	1ST	Hamburg, Wisconsin
Klitzke, June	LA	U	1ST	Hammond, Indiana
Klotz, Evelyn	LA	J	1, 2	Chicago, Illinois
Knoke, Dorothy	LA	U	1ST	East Detroit, Mich.
Koepsell, Victor	LA	U	1ST, 2ST	Shawano, Wisconsin
Komar, Frank	LA	F	1	East Chicago, Indiana
Konshock, Ardath	LA	F	1, 2	Des Moines, Iowa

NAME OF STUDENT	C	Y	ATTENDANCE	HOME ADDRESS
Korntheuer, Gerhard	LA	U	2ST	Chicago, Illinois
Kowitz, Fred	LA	U	2ST	Wyandotte, Michigan
Kramer, Alice	LA	F	1, 2	Wichita Falls, Texas
Krause, Kenneth	E	So.	1, 2	Chicago, Illinois
Krenzke, Edward	LA	So.	1	Racine, Wisconsin
	L	1	2	
Krenzke, Helen	LA	F	1, 2	Racine, Wisconsin
Kressin, Luther	LA	J	1, 2	Winona, Minnesota
Kretzmann, Anita	LA	J	1, 2	Orange, New Jersey
Kretzmann, Emma	LA	J	1, 2	Sylvan Grove, Kans.
Kreutzburg, Rowena	LA	S	1, 2	Dolton, Illinois
Kringel, Donald	LA	F	1	Pittsburgh, Pa.
		So.	2	
Krogh, Harry	P	S	1, 2	Harvey, Illinois
Kronbach, Irma	LA	F	1, 2	Cleveland, Ohio
Krueger, Esther	LA	So.	1, 2	Harbor Beach, Mich.
Krueger, Frederick	L	3	1, 2	Michigan City, Ind.
Kruse, Ethel	LA	F	1, 2	Rocky River, Ohio
Kufrin, Ruben	P	F	1	Gaylord, Minnesota
	LA	F	2	
Kugler, Herbert	L	3	1, 2	Easthampton, Mass.
Kurtz, Edwin	LA	F	1, 2	Easthampton, Mass.
Kusch, Fred	LA	So.	1, 2	Detroit, Michigan
Laetz, Ernest	LA	S	1, 2	Bay City, Michigan
Lamparter, Kenneth	LA	F	2	Chicago, Illinois
Landgraf, Doris	LA	F	1, 2	Freeport, Illinois
Langner, Carl	E	F	2	Chicago, Illinois
Langrehr, Ellen	LA	F	1, 2	Chicago, Illinois
Lantz, Gracecaryl	LA	So.	1, 2	Valparaiso, Indiana
Laube, Richard	LA	F	1, 2	Kankakee, Illinois
Layman, Lura	LA	U	1ST	Walton, Indiana
Leach, Edgar	LA	F	1, 2	Chesterton, Indiana
Lederer, Paul	P	J	1, 2	Conklin, Michigan
Lee, Orville	LA	F	1	Chicago, Illinois
Lichtsinn, Louis	L	3	1, 2	Huntington, Indiana
Lidtke, Howard	LA	F	1, 2	Detroit, Michigan
Lillibridge, William	P	F	2	Hammond, Indiana
Lindner, Hugo	LA	J	1, 2	Gary, Indiana
Lipske, Herold	LA	U	2ST	Chicago, Illinois
Loerke, Edward	LA	S	1, 2	Milwaukee, Wisconsin
Long, La Verne	LA	U	1ST	Porter, Indiana
Ludwig, Renata	LA	J	1ST, 1, 2	Stevens Point, Wis.
Ludwig, Ruth	LA	F	1, 2	Milwaukee, Wisconsin
Lulinski, Chester	P	So.	1, 2	Chicago, Illinois
Lutz, William	LA	J	1, 2	Alton, Illinois
Lutzke, Martin	LA	S	1ST, 1, 2	Beaver Dam, Wis.
Mac Farlane, Margaret	LA	So.	1ST, 2ST, 1	Valparaiso, Indiana
	LA	J	2	
McGill, Mary Alice	LA	J	1ST, 1	Valparaiso, Indiana
	LA	S	2	
McGillicuddy, Mary	LA	F	1, 2	Valparaiso, Indiana
McGinnis, John	LA	F	1, 2	Oak Glen, Illinois
Mack, Wesley	P	S	1, 2	Wanatah, Indiana
Mackensen, Dorothy	LA	So.	1, 2	Glen Ellyn, Illinois
Maggart, Louis	LA	So.	1, 2	Silver Lake, Indiana
Magnuson, Kenneth	LA	F	1, 2	Chesterton, Indiana
Magnuson, Paul	LA	U	1	Valparaiso, Indiana

NAME OF STUDENT	C	Y	ATTENDANCE	HOME ADDRESS
Mahnken, Ella.....	LA	F	1, 2	Carlyle, Illinois
Maier, Frank.....	LA	F	1, 2	Elmhurst, Illinois
Makovsky, Theodore.....	LA	F	1, 2	Valparaiso, Indiana
Mann, Mrs. Bernice L.....	LA	U	1ST, 2ST	Michigan City, Ind.
Mann, Sylvester.....	LA	U	1ST	Wanatah, Indiana
Marks, Gus.....	L	2	1, 2	Valparaiso, Indiana
Marquart, Jeroldine.....	LA	J	1, 2	Chesterton, Indiana
Mathy, Leonard.....	LA	F	1, 2	Chicago, Illinois
Max, Frederick.....	LA	So.	1, 2	Chicago, Illinois
Mayer, Walter.....	LA	F	1, 2	Springfield, Illinois
Mehl, William.....	E	F	1, 2	Sylvan Grove, Kansas
Meier, Erwin.....	LA	So.	1, 2	Berwyn, Illinois
Meier, Paul.....	LA	J	1, 2	Lockport, New York
Mell, Annetta.....	LA	F	1, 2	Farmington, Missouri
Mertz, Paul.....	LA	So.	1, 2	Lancaster, Ohio
Meyer, Gertrude.....	LA	F	1, 2	Valparaiso, Indiana
Meyer, Mary.....	LA	So.	1	La Porte, Indiana
Meyer, Mildred.....	LA	F	1, 2	Shawano, Wisconsin
Michet, Victor.....	P	J	1, 2	Chicago, Illinois
Miles, Carroll.....	E	F	1, 2	Valparaiso, Indiana
Miller, Audrey.....	P	J	2ST, 1, 2	Valparaiso, Indiana
Miller, Eleanor.....	LA	U	1ST	Valparaiso, Indiana
Miller, Franklin.....	E	So.	1, 2	Big Rapids, Michigan
Miller, Herman.....	E	F	1, 2	Hammond, Indiana
Miller, May.....	LA	U	2ST	La Porte, Indiana
Miller, Ruth.....	LA	F	1, 2	Elizabeth, New Jersey
Miller, Theodore.....	E	J	1, 2	Beecher, Illinois
Milnikel, Eugene.....	LA	F	1, 2	St. Joseph, Michigan
Misanko, Steve.....	LA	So.	1	Gary, Indiana
Moody, Roger.....	LA	J	1, 2	Valparaiso, Indiana
Morgan, William.....	P	So.	1	Harvey, Illinois
	P	J	2	
Morland, Mary.....	L	1	1, 2	Valparaiso, Indiana
Mueckler, Evelyn.....	LA	F	1, 2	Ludington, Michigan
Mueller, Gertrude.....	LA	J	1, 2	Napoleon, Ohio
Mueller, Hilbert.....	LA	So.	1, 2	Dwight, Illinois
Mueller, Hildegard.....	LA	So.	1	Waupun, Wisconsin
Muhlenbruck, Kenneth.....	LA	J	1, 2	Hicksville, New York
Muhly, Thelma.....	LA	F	1	Detroit, Michigan
Nase, Marie.....	LA	F	1, 2	Truman, Minnesota
Neils, Robert.....	E	F	1, 2	Libby, Montana
Newson, Robert.....	E	F	1, 2	Valparaiso, Indiana
Nieman, Henry.....	LA	F	1, 2	Hoyleton, Illinois
Niemann, Lawrence.....	LA	J	1	Litchfield, Illinois
Nimmoth, Charles.....	LA	F	1, 2	Detroit, Michigan
Noble, Steven.....	LA	So.	1	Valparaiso, Indiana
	LA	U	2	
Nondorf, Thomas.....	LA	F	1	Lansing, Illinois
Nordsieck, Henriette.....	LA	J	1, 2	Richmond, Indiana
Oertel, Gertrude.....	LA	F	1	Indianapolis, Indiana
	LA	So.	2	
Olson, Carl.....	LA	F	1	Lowell, Indiana
Orr, Willard.....	LA	F	1	Hammond, Indiana
Oswald, Harold.....	LA	J	1, 2	Madison, Wisconsin
Ott, Clarence.....	LA	F	1, 2	Lenox, Michigan
Otte, Marie.....	LA	So.	1, 2	Clarinda, Iowa
Owen, Mrs. Belle C.....	LA	U	1ST	Lowell, Indiana

NAME OF STUDENT	C	Y	ATTENDANCE	HOME ADDRESS
Papageorge, Helene	LA	S	1ST, 1, 2	Hammond, Indiana
Pauken, Thomas	E	So.	1ST, 2ST, 1, 2	Valparaiso, Indiana
Pederson, William	LA	J	1, 2	Manhattan, Illinois
von Pelchrzim, Vivian	LA	So.	2	Oak Park, Illinois
Peper, Robert	L	3	1, 2	Holgate, Ohio
Peterson, Walter	LA	So.	1, 2	Buffalo, New York
Pfeiffer, Margaret	LA	F	1, 2	Detroit, Michigan
Phillips, Wylde	LA	U	1ST	Wanatah, Indiana
Pillsbury, Mrs. Elizabeth B.	P	S	1ST, 1, 2	Fort Wayne, Indiana
Pillsbury, Eugene	P	S	1ST, 2ST, 1, 2	Frankenmuth, Mich.
Pillsbury, Rosella	LA	S	2ST, 1, 2	Frankenmuth, Mich.
Plehn, John	LA	F	1, 2	Milwaukee, Wisconsin
Plischke, Hilbert	P	S	1, 2	Bonduel, Wisconsin
Ploger, Vivian	LA	So.	1	Valparaiso, Indiana
	LA	U	2	
Poehner, John	LA	F	1, 2	Chicago, Illinois
Pomex, Ethel	P	S	1, 2	Chicago, Illinois
Potratz, Rev. John	LA	U	2ST	Shawano, Wisconsin
Purvis, Harry E.	P	S	1, 2	New Haven, Indiana
Rabe, Charles	P	So.	1, 2	Steeleville, Illinois
Raelson, Verner	LA	F	1, 2	Valparaiso, Indiana
Rankin, Margaret	LA	J	1, 2	Gary, Indiana
Raub, Kenneth	L	2	1, 2	Gary, Indiana
Reed, Carolyn	LA	So.	1, 2	Logansport, Indiana
Reich, Howard	LA	F	1, 2	Forest Park, Illinois
Reich, Veronica	LA	So.	1, 2	Forest Park, Illinois
Reich, Vivian	LA	S	1, 2	Forest Park, Illinois
Reichert, Elaine	LA	F	1, 2	Chili, Wisconsin
Reidenbach, Esther	LA	F	1, 2	South Bend, Indiana
Reifschneider, Gustav	LA	U	2ST	Cleveland, Ohio
Rentner, Elvira	LA	F	1, 2	Chicago, Illinois
Ressmeyer, Ruth	LA	S	1, 2	Baltimore, Maryland
Reynolds, Dorothy	LA	J	1, 2	Chicago, Illinois
Richman, Dorothy	So.	1, 2		West Hartford, Conn.
Rickard, Dorothyne	LA	So.	1, 2	Valparaiso, Indiana
Risto, Herbert	P	J	1, 2	Wanatah, Indiana
Rittmann, Eugene	LA	F	1, 2	Holdingford, Minn.
Rittmueller, Lillian	LA	So.	1, 2	Addison, Illinois
Rodda, William	LA	F	1, 2	Hammond, Indiana
Roedel, George	P	J	1, 2	Saginaw, Michigan
Rohlfen, Wilbert	LA	So.	1, 2	Watertown, Minn.
Rohn, William	E	F	1, 2	St. Joseph, Michigan
Rooney, John	LA	So.	1, 2	Chesterton, Indiana
Rose, Martha	LA	J	1, 2	Valparaiso, Indiana
Rosel, C. Ruth	LA	So.	1, 2	St. Ansgar, Iowa
Rosenthal, Martin	LA	F	1	West Allis, Wisconsin
	LA	So.	2	
Rosenthal, Robert	LA	F	1, 2	Crystal Lake, Illinois
Ruecklos, Irene	LA	J	1, 2	Bloomington, Illinois
Rucinski, Albert	LA	F	1	East Chicago, Ind.
Ruehr, Carl	E	So.	1, 2	Chicago, Illinois
Ruge, John	LA	F	1, 2	Valparaiso, Indiana
Ruth, Ethel O.	LA	U	1ST	Wheeler, Indiana
Salamone, Frank	P	U	1ST	Chicago, Illinois
Salchow, Walter	P	J	1, 2	North East, Pa.
Sallach, Irvin	E	F	1, 2	Etna, Pennsylvania
Salvner, Arnold	LA	So.	1, 2	Saginaw, Michigan

NAME OF STUDENT	C	Y	ATTENDANCE	HOME ADDRESS
Samuelson, Marjorie.....	LA	So.	1, 2	McCool, Indiana
Sautter, Edward.....	LA	J	1, 2	Bay City, Michigan
Savage, James.....	L	2	1, 2	Fort Wayne, Indiana
Scheck, Norman.....	LA	F	1, 2	Brookfield, Illinois
Scheer, A. G.....	LA	U	2ST	Millington, Michigan
Scheidt, Louis.....	LA	F	1, 2	Columbus, Indiana
Schenck, Harold.....	LA	F	1, 2	Melvindale, Michigan
Scherer, Emily.....	LA	J	1, 2	South Orange, N. J.
Scherf, Paul.....	E	J	1, 2	Freeport, Illinois
Schilke, Harry.....	LA	J	1, 2	Middletown, Conn.
Schimmel, Thomas.....	LA	U	2ST	Michigan City, Ind.
Schmutzler, Marion.....	LA	J	1, 2	Pewaukee, Wisconsin
Schnake, Elroy.....	E	So.	1, 2	St. Peter, Illinois
Schoenherr, Magnus.....	L	2	1, 2	Fort Wayne, Indiana
Schramm, Cornelia.....	LA	F	1, 2	Farmington, Missouri
Schroeder, Margaret.....	LA	S	1, 2	Grafton, Wisconsin
Schroeder, Maria.....	LA	So.	1, 2	Coal Valley, Illinois
Schroeder, Martha.....	LA	F	1, 2	Coal Valley, Illinois
Schroeder, Raymond.....	LA	So.	1, 2	Grosse Point, Mich.
Schroeder, Vietta.....	LA	S	1, 2	Wall Lake, Iowa
Schultz, Wilbert.....	LA	So.	1, 2	Chicago, Illinois
Schuth, John.....	LA	J	1, 2	Freeport, Illinois
Schwan, Clifford.....	LA	S	1, 2	Cleveland Heights, O.
Schwan, Margarette.....	LA	J	1, 2	Mishawaka, Indiana
Schwan, Theodore.....	LA	F	1, 2	Mishawaka, Indiana
Schwandt, Bernhard.....	P	J	1, 2	Montevideo, Minn.
Schwartz, Irving.....	P	J	1, 2	Chicago, Illinois
Schwulst, Carl.....	LA	F	1, 2	Bloomington, Illinois
Scully, Harold.....	LA	So.	1	East Chicago, Ind.
Shelksohn, Oliver.....	LA	S	1ST, 2ST, 1, 2	Dorrance, Kansas
Sheviak, Frances.....	LA	U	1ST	Wanatah, Indiana
Siebert, Renotta.....	LA	J	1, 2	Barron, Wisconsin
Sievers, Ada.....	LA	U	1ST	Valparaiso, Indiana
Sieving, Alfred.....	E	S	1, 2	Venedy, Illinois
Skirmont, Ellen.....	LA	J	1, 2	Batavia, Illinois
Slivinske, Wilmer.....	L	3	1, 2	Wilkes Barre, Pa.
Smedman, Melvin.....	LA	J	1ST, 2ST, 1, 2	Chesterton, Indiana
Smith, Alan.....	E	F	1, 2	Bradford, Pa.
Smith, Stella.....	P	J	1, 2	Chicago, Illinois
Spear, Lester.....	LA	S	2	Michigan City, Ind.
Springsteen, Robert.....	LA	F	1, 2	Howard, Illinois
Stauss, Jean.....	LA	So.	1, 2	Racine, Wisconsin
Stelter, Gerhardt.....	LA	U	1ST, 2ST	Racine, Wisconsin
Stevens, Charles.....	E	F	1, 2	Chicago, Illinois
Stevens, William.....	LA	S	1, 2	Michigan City, Ind.
Stiegemeier, Kenneth.....	LA	F	1, 2	Bay City, Michigan
Stodden, Karl.....	P	F	1, 2	Chicago, Illinois
Stoner, James.....	LA	F	1, 2	Valparaiso, Indiana
Stoner, Janet.....	LA	So.	1, 2	Valparaiso, Indiana
Stowers, Charles.....	LA	So.	1, 2	Tarentum, Pa.
Streit, Arthur.....	E	F	1, 2	Chicago, Illinois
Struck, Peter.....	L	2	1, 2	Norwood Park, Ill.
Sudrow, John.....	L	3	1	Michigan City, Ind.
Sullivan, Edward.....	LA	So.	1, 2	East Chicago, Indiana
Sveggen, Edward.....	LA	F	1, 2	Sheridan, Wyoming
Swartzel, Geraldine.....	LA	U	1ST	Logansport, Indiana
Swartzel, Lawrence.....	LA	J	1, 2	La Porte, Indiana
Swihart, Woodrow.....	P	So.	1, 2	Elkhart, Indiana

REGISTER OF STUDENTS

115

NAME OF STUDENT	C	Y	ATTENDANCE	HOME ADDRESS
Tamm, Norma.....	LA	So.	1, 2	Forest Park, Illinois
Tamm, Richard.....	E	F	1, 2	Chicago, Illinois
Tatman, William.....	E	F	1, 2	Lowell, Indiana
Taylor, Melvin.....	LA	F	1, 2	Wheeler, Indiana
Tetzlaff, Louis.....	P	So.	1, 2	Watertown, Wis.
Tewes, Donald.....	LA	J	1, 2	Merrill, Wisconsin
Tewes, Norman.....	LA	So.	1, 2	Merrill, Wisconsin
Thaney, Paul.....	LA	U	1ST	Hebron, Indiana
Thober, Herbert.....	E	F	1, 2	Elmore, Ohio
Thober, William.....	P	J	1, 2	Elmore, Ohio
Thomas, Mrs. Florence G..	LA	U	1ST	Crown Point, Indiana
Thompson, Robert.....	LA	F	1, 2	La Porte, Indiana
Tigar, Aline.....	LA	Au	1	Valparaiso, Indiana
Tio, James.....	P	So.	1, 2	Marseilles, Illinois
Toepel, Robert.....	LA	J	1, 2	Manitowoc, Wis.
Tozer, William.....	LA	F	1, 2	Brazil, Indiana
Truman, Grace.....	LA	F	1, 2	Elmore, Ohio
Tuber, Julian.....	LA	F	1	Chicago, Illinois
	LA	So.	2	
Uban, Chester.....	P	J	1, 2	Hawley, Pennsylvania
Ulbrich, Roy.....	LA	F	1, 2	Detroit, Michigan
Ungrodt, Ruth.....	LA	So.	1, 2	Wauwatosa, Wis.
Unseth, Theodore.....	LA	J	1, 2	Waterville, Iowa
Urschel, Elizabeth.....	LA	F	1, 2	Valparaiso, Indiana
Von Fange, Alfred.....	LA	U	1ST, 2ST	Wauwatosa, Wis.
Waaler, Thelma.....	LA	So.	1, 2	Flint, Michigan
Wachholz, John.....	E	F	1, 2	Milford Center, Ohio
Wachholz, Paul.....	LA	J	1, 2	Milford Center, Ohio
Wagner, Hans.....	LA	F	1, 2	New Ulm, Minnesota
Waitman, Bernard.....	LA	F	1, 2	Monroe, Michigan
Waitman, Margaret.....	LA	F	1, 2	Monroe, Michigan
Waldschmidt, Melvin.....	L	1	1, 2	Grand Haven, Mich.
Waldschmidt, Victor.....	LA	U	1ST	Chicago, Illinois
Walton, David.....	E	J	1, 2	Sturgis, Michigan
Weber, Waldemar.....	LA	F	1, 2	Racine, Wisconsin
Wefel, Paul.....	E	F	1, 2	Cleveland, Ohio
Wehrenberg, Ruth.....	LA	F	1, 2	Fort Wayne, Indiana
Wehrspann, Donald.....	LA	So.	1	Ottosen, Iowa
Wenger, Alwin.....	E	So.	1, 2	Springfield, Illinois
Wessel, Christian.....	E	So.	1, 2	Vincennes, Indiana
Wheeler, Polly.....	LA	F	1, 2	Valparaiso, Indiana
White, Leo.....	LA	F	1, 2	Valparaiso, Indiana
Witte, Paul.....	LA	U	1ST, 2ST	Aurora, Illinois
Wieggen, Walter.....	LA	U	1	Valparaiso, Indiana
	LA	J	2	
Winkler, August.....	E	F	1, 2	Benton Harbor, Mich.
Wolf, Edward.....	LA	F	1	Hesperia, Michigan
Wolff, Raymond.....	L	3	1, 2	Elgin, Illinois
Wood, Carl.....	LA	F	1, 2	Valparaiso, Indiana
Woods, Betty.....	LA	S	1, 2	Valparaiso, Indiana
Wright, Eldon.....	L	1	1, 2	No. Manchester, Ind.
Wukasch, Harold.....	LA	U	1ST, 2ST	Chicago, Illinois
Yelsik, William.....	L	1	1, 2	E. Port Chester, Conn.
Yonke, Eugene.....	E	1	1	Calumet City, Illinois
Younglove, Robert.....	LA	J	1, 2	Knox, Indiana

NAME OF STUDENT	C	Y	ATTENDANCE	HOME ADDRESS
Zersen, Rudolph.....	LA	So.	1, 2	Itasca, Illinois
Ziehlsdorff, Margaret.....	LA	F	1, 2	Augusta, Wisconsin
Zieroth, Werner.....	LA	F	1, 2	Chicago, Illinois
Zimmerman, Alfred.....	P	So.	1, 2	Randolph, Wisconsin
Zimmerman, Walter.....	LA	S	1	Meriden, Connecticut

Forms of Bequest

BECAUSE of the constantly increasing tendency on the part of our friends to provide for the growing needs of the University by bequests and the many inquiries received each year as to the proper wording thereof, there are given below forms for the convenience of those who plan to remember Valparaiso in their wills.

(GENERAL)

I give and bequeath to the Lutheran University Association, a corporation existing under the laws of the State of Indiana, and located in the City of Valparaiso, in said State, ----- dollars, to be used at the discretion of the Corporation of said Association.

(SPECIFIC)

I give and bequeath to the Lutheran University Association, a corporation existing under the laws of the State of Indiana, and located in the City of Valparaiso, in said State, ----- dollars, and direct that the income therefrom shall be used for the purposes following, that is to say:

(Here specify in detail the purposes)

As in some states a bequest for charitable purposes is void unless the will is executed at least a certain length of time (varying in different states) before the death of the testator, and is attested by two or more credible, and at the same time disinterested witnesses, it is advisable to ascertain the requirements of the law in the state in which the testator resides, and to be careful that such requirements are complied with.

GENERAL INDEX

A

A. B. Degree	33, 36
Academic Year	3
Accountancy	44
Accreditation of University	4
Accredited High Schools	28
Activities, Extra-Curricular	23
Activities, Religious	20
Administration, Officers of	7
Administrative Assistants	7
Administrative Committees	8
Admission Requirements—	
General	28
College of Liberal Arts	28
College of Engineering	73
College of Pharmacy	89
School of Law	95
Advanced Standing	29
College of Liberal Arts	29
College of Engineering	29
College of Pharmacy	29
School of Law	96
Advisers, Special	37
Advisers, Reports from	32
Aid, Student	21
Aims of the University	16
Altruria Hall	19
Amendments of Rules and Regulations	34
American Association of Colleges of Pharmacy	4, 88
American Bar Association	4
Amount of Work Allowed	30
Application for Aid, Method of	23
Application for Admission	28
Applied Music Courses—	
Orchestral Instruments	64
Piano	62
Viola	64
Violin	63
Violoncello	64
Voice	65
Ensemble	67
Assistants, Student	13, 22
Association of American Law Schools	4, 94
Association, Lutheran University	7
Athletic Association, Women's	24
Athletics	24
Intercollegiate	24
Intramural	24
Attendance, Summary of	104
Auditor Fee	18
Awards, Student Aid	22

B

Bachelor of Arts Curriculum	36
Bequest, Forms of	116
Biology Club	39
Biology, Department of	39
Major	41
Board	18
Board of Directors	6
Standing Committees of	6
Botany, Section of	42
Courses	42
Minor	41
B. S. in Pharmacy	89
Buildings and Equipment	17
Bureau of Recommendations	34
Business Management, Department of	43
Courses	44, 45
Major and Minor	43, 44

C

Calendar for 1937-1938	2
Calendar, University	3
Change of Program	29
Fee	20
Chapel Exercises	20
Chemical Engineering	47, 75
Curriculum	75
Chemistry Club	46
Chemistry-Commerce	44, 47
Chemistry, Department of	46
Courses	47, 48
Major and Minor	47
Choir	25, 67
Church Attendance	21
Civil Engineering, Department of	76, 82
Courses	82, 83, 84
Curriculum	76, 77
Class Honors	34
Class Organizations	24
Classification as Freshman, Sophomore, Junior, Senior	32
Classification of Courses	32
College of Engineering	71
Admission	73, 74
Courses	82ff
Curricula	73, 75ff
Degrees	74
General Information	72
Graduation	74
College of Liberal Arts	36
Accrediment for Teacher Training	48

Admission	28
Degree	33
Degree Requirements	36, 37
Departments of Instruction—	
Biology	39
Business Management and	
Economics	43
Chemistry	46
Education and Psychology	48
English Language and	
Literature	51
Foreign Languages and	
Literatures	52
Geography and Geology	56
Mathematics and Physics	58
Music	60
Religion and Philosophy	67
Social Science	68
Graduation	33
Objectives	36
College of Pharmacy	87
Admission	89
Courses	91, 92
Degree	89
General Information	88
Graduation	89
Combined Programs	40
Commencement, Presence at	33
Commerce Club	43
Commerce-Chemistry	44, 47
Commercial Engineering	77
Curriculum	78, 79
Composition, Courses in	51
Concerts, Lectures and	24
Condition Examination	31
Fee	20
Condition Grade	31
Conduct, Student	21
Cost of Attending the University	18
Credit Hour, The	30
Credits in Year Courses	32
Credits Per Semester	30
Credit Requirements	33
Credits in Music	62
Critic Teachers	12
Curricula—	
Chemical Engineering	75, 76
Civil Engineering	76, 77
Commercial Engineering	78, 79
Electrical Engineering	79, 80
Law	96
Mechanical Engineering	81
Preparation for:	
Dentistry	41
Law	39
Medicine	40
Pharmacy, Four Year	89
Public School Music	60, 61

D

Days of Registration	3
Debate	25
Degrees	33
Application for	33
College of Liberal Arts	33
College of Engineering	74
College of Pharmacy	89
School of Law	96
Requirements, General	33
Degrees Conferred, 1935-1936	102
Degrees "in Absentia"	33
Degrees "With Distinction"	34
Directors, Board of	6
Dismissal, Honorable	31
Dormitories	19
Dramatics	25
Drawing, Courses in Engineering	82

E

Economics, Courses in	46
Education and Psychology,	
Department of	48
Education Club	24
Education, Courses in	49, 50
Minor	49
Electives	37
Electrical Engineering,	
Department of	79, 84
Courses	84
Curriculum	79, 80
Engineering, College of	71
English Club	24
English Language and Literature,	
Department of	51
Courses	51, 52
Majors and Minors	51
Ensemble	67
Entrance Requirements	28, 73, 89, 95
Entrance Units	28
Equipment, Buildings and	17
Examinations	31
Examination Fees, Condition and	
Special	20
Expenses at the University	18, 19
Extra-Curricular Activities	23
Extra Work in a Semester	30

F

Faculty	9
Faculty Committees	8
Fees—	
General	18
Special	20
Laboratory (See Courses)	
Music	18
Part-time Students	18
Student Council	20
Tuition	18

Foreign Languages and Litera- tures, Department of	52
Forensics	25
French, Section of	53
Courses	53, 54
Major and Minor	53
Freshman—	
Boarding	18
Honors	34
Residence of	19
Freshman Days	29

G

Gamma Delta	21
General Information	15
Geographical Distribution of Students	105
Geography-Geology, Department of	56
Courses	57
Major and Minor	56, 57
Objectives	56
German, Section of	54
Courses	54, 55
Major and Minor	54
Grade Reports	32
Grading System	31
Graduation—	
General	33
College of Liberal Arts	33
College of Engineering	74
College of Pharmacy	89
School of Law	96
Graduation Fee	20
Grounds and Buildings	17

H

Halls of Residence	19
Health and Physical Education, General	23
Health Education	41
High School Teacher's License— Requirements for	49
History, Section of	68
Courses	68, 69
Majors and Minors	68
History and Aims of the University	16
History, College of Engineering ..	72
History, College of Pharmacy	88
History, School of Law	94
Honorable Dismissal	31
Honorary Societies	24
Honors, Class	34
Honorable Mention	34

I

Independent Work Courses	37
Indiana Intercollegiate Conference	24

Instruments, Orchestral	64
Intercollegiate Athletics	24
Intramural Athletics	24

J

Journalism, Adviser	37
Journalism, Courses In	51
Journalism, Preparation for	51
Junior, Classification as	32
Junior Scholars	34

L

Languages—	
English	51
French	53
German	54
Latin	55
Language Requirements	36, 53
Late Registration Fee	20
Latin, Section of	55
Courses	55, 55
Minor	55
Law Courses—	
First Year	97, 98
Second and Third Year	98, 99, 100
Law Lectures	100
Law Library	95
Law-Liberal Arts Program, Six-Year	96
Law, School of	93
Admission	95
Curriculum	96
Degree	96
Graduation	96
Lectures and Concerts, Special ..	24
Lembke Hall	19
Liberal Arts College	35
Liberal Arts—Pre-Professional Programs	38
Liberal Arts-Law Program, Six-Year combined	96
Library—	
General	17
Law	95
Library Science, Adviser for	37
Literature, Courses in	51, 52
Literary and Scientific Societies ..	24
Living Accommodations	19
L.L.B. Degree	33, 95
Loans, Student	23
Location of the University	16
Lutheran University Association ..	7

M

Major	37
Make-up Examination Fee	20
Marking System	31
Mathematics and Physics, Department of	58

Mathematics, Section of	58
Courses	58, 59
Major and Minor	58
Matriculation Fee	20
Matriculation, Routine of	20
Maximum Registration	30
Mechanical Engineering,	
Department of	73, 85
Courses	85
Curriculum	81
Medicine, Preparation for	40
Minimum Costs, Table of	19
Minimum Registration	30
Minor	37
Music, Department of	60
Courses	65, 66, 67
Music Fees	18
Music, General Major	62
Music, Major for Secondary	
Teachers	61
Music, Unit of Credit	62
Music Organizations	25, 67

N

Natural Science Requirements	37
Non-Resident Students—Residence	19
North Central Association of Col-	
leges and Secondary Schools	4, 94

O

Objectives, Liberal Arts College ..	36
Office Assistants	7
Officers, Administrative	7
Orchestra	25, 67
Organizations—	
Class	24
Debate	25
Dramatic Art	25
Honorary	24
Literary and Scientific	24
Musical	25
Student	23

P

Part-Time Students, Tuition and	
Fees for	18
Passing Grade	31
Payee	20
Pharmacy, College of	87
Admission	89
Courses	91, 92
Curriculum	89
Degree	89
General Information	88
Graduation	89
Pharmaceutical Association	88
Pharmacognosy, Courses in	92
Philosophy, Department of	
Religion and	67

Philosophy, Section of	67
Courses	67, 68
Minor	67
Physical Education, Health and ..	23
Physics, Department of	
Mathematics and	58
Physics, Section of	59
Courses	59, 60
Major and Minor	59
Piano Courses	62
Points, Quality	31
Political Science, Division of	70
Courses	70
Practice Court	95
Pre-dental Adviser	37
Pre-dental Program	40
Pre-legal Adviser	37
Pre-legal Program	38, 95
Pre-medical Adviser	40
Pre-medical Program	40
Pre-pharmacy	89
Preparatory for—	
Dentistry	38, 41
Journalism	51
Law	38
Medicine	38
Professional Degrees in	
Engineering	74
Program, Pre-Professional	38
Programs, Combined—	
Liberal Arts—Law	39
Liberal Arts—Medicine	38
Liberal Arts—Nursing	41
Psychology, Courses in	50, 51
Publications, Student	24
Public School Music Curriculum ..	60, 61
Public Speaking, Courses in	52

Q

Quality Points	31
----------------------	----

R

Reading Courses—	
Law	100
Refunds	20
Register of Students, 1936-1937 ..	106
Registration	28
Registration Fee, Late	20
Registration, Routine of	29
Regulations, Amendment of	34
Religion and Philosophy,	
Department of	67
Religion, Section of	67
Courses	67
Religious Activities	20
Reports from the Advisers	32
Reports from the Registrar	32
Reports, Grade	32
Requirements, H. S. Teacher's	
License	49

Requirement—	
Degrees and Graduation	33
Entrance	28
English Language and	
Literature	36
Foreign Language	36, 53
Individual Health	37
Natural Science	37
Religion	36
Social Science	37
Residence Requirements	33
Rooming Houses	19
Room Rent	19
Routine of Registration	29

S

Schedule, Approval of	37
Scholars: Freshman, Sophomore,	
Junior, Senior	34
Scholarships	22
School of Law	93
Admission	95
Courses	97
Curriculum	96
Graduation	96
Scientific Societies, Literary and	24
Secretarial Training,	
Courses in	45
Senior, Classification as	32
Senior Scholars	34
Six-Year Combined Liberal Arts-	
Law Program	39
Social Science, Department of	68
Social Science Requirements	37
Societies, Honorary	24
Sociology, Section of	70
Courses	70
Major and Minor	70
Sophomore, Classification as	32
Sophomore Scholars	34
Special Examination or Make-up	
Fee	20
Special Fees	20
Special Students, Admission as	28
Standing, Advanced	29
Standing Committees of the Board	6
Standing of Students	32
Student Aid	21
Student Aid Awards	22
Student Assistants	22
Student Conduct	21
Student Council	23
Student Council Fees	20
Student Loans	23

Student Organizations	23
Student Publications	24
Students—	
Classification of	32
Geographic Distribution	105
Register of	106ff
Summary of Attendance	104
Supervised Teaching	49

T

Table of Minimum Costs	19
Teacher Training	49
Teacher's License, High School	49
Teaching Staff	9
Theory of Music, Courses in	65
"Torch"	24
*Transfer to Another Program	29
Tuition Fee	18

U

"Uhlan"	24
"Uhlan" Fee	20
Units Recommended for	
Admission	28

V

Viola, Courses in	64
Violin, Courses in	63
Violoncello, Courses in	64
Visitors, Attendance on Courses as	30
Voice, Courses in	65

W

Wind Instruments	64
Withdrawal from Courses	29
Withdrawal from the University	30
Women's Athletic Association	24
Women Students, Residence of	19
Work Allowed, Amount of	30

Y

Year Courses, Credit in	32
-------------------------------	----

Z

Zoology, Section of	42
Courses	42, 43
Major and Minor	41

